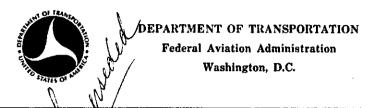
DATE 4/6/81

## ADVISORY CIRCULAR



Subject: RADIO TECHNICAL COMMISSION FOR AERONAUTICS DOCUMENT DO-160A

- 1. <u>PURPOSE</u>. This advisory circular (AC) calls attention to the Radio Technical Commission for Aeronautics (RTCA) Document DO-160A, Environmental Conditions and Test Procedures for Airborne Electronic/Electrical Equipment and Instruments, and discusses how the document may be used in connection with technical standard order (TSO) authorizations.
- 2. <u>CANCELLATION</u>. Advisory Circular 37-3A, Radio Technical Commission for Aeronautics Document DO-160, dated March 20, 1975, is canceled.
- 3. RELATED FAR SECTIONS. FAR Part 21, Subpart 0.
- 4. <u>BACKGROUND</u>. RTCA Document DO-160A was developed by RTCA to provide improved environmental test procedures and test conditions applicable to airborne electronic/electrical equipment and instruments. In some cases applicants for TSO authorizations may prefer to use these new procedures in lieu of those specified in a specific TSO.
- 5. <u>USE OF DO-160A PROCEDURES</u>. An applicant for a TSO authorization for any electronic equipment, electric equipment or instrument may use the conditions and procedures prescribed in RTCA Document No. DO-160A in lieu of the corresponding conditions and procedures specified in a TSO if it is shown that:
- a. All conditions and procedures used are those prescribed in RTCA Document No. DO-160A.
- b. The substitute test procedure from RTCA Document No. DO-160A provides an equivalent level of safety.
- c. The applicant requests approval to deviate in accordance with the requirements of FAR Section 21.609.

Initiated by: AWS-130

6. WHERE TO OBTAIN COPIES OF RTCA DOCUMENT DO-160A. Copies of DO-160A may be obtained from:

RTCA Secretariat Suite 655 1717 H Street NW. Washington, DC 20006

M. C. Beard

Director of Airworthiness

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U.S. Department of Transportation

Federal Aviation Administration

800 Independence Ave., S.W. Washington, D.C. 20591

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