



U.S. Department
of Transportation
**Federal Aviation
Administration**

Advisory Circular

FOA TECH PUB UNIT
800 INDEPENDENCE AVE SW
WASHINGTON, DC 20521

Subject: RADIO TECHNICAL COMMISSION FOR
AERONAUTICS DOCUMENT NO. DO-160B

Date: 10/9/84
Initiated by: AWS-120

AC No: 21-16B
Change:

1. PURPOSE. This advisory circular calls attention to the Radio Technical Commission for Aeronautics (RTCA) Document No. DO-160B, "Environmental Conditions and Test Procedures for Airborne Equipment," dated July 20, 1984, and discusses how the document may be used in connection with technical standard order (TSO) authorizations.
2. CANCELLATION. Advisory Circular 21-16A, Radio Technical Commission for Aeronautics Document DO-160A, dated September 16, 1981, is canceled.
3. RELATED FEDERAL AVIATION REGULATIONS (FAR). FAR Part 21, Subpart O.
4. BACKGROUND. RTCA Document No. DO-160B was developed by RTCA to provide improved environmental test procedures and test conditions applicable to airborne equipment. In some cases applicants for TSO authorizations may prefer to use these new procedures in lieu of those specified in a specific TSO.
5. USE OF RTCA DOCUMENT NO. DO-160B. An applicant for a TSO authorization for airborne equipment may use the conditions and procedures prescribed in RTCA Document No. DO-160B 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-160B.
 - b. The substitute test procedure from RTCA Document No. DO-160B provides an equivalent level of safety.
 - c. The applicant requests approval to deviate in accordance with the requirements of FAR Section 21.609.
6. AVAILABILITY OF RTCA DOCUMENT NO. DO-160B. Copies may be purchased from the Radio Technical Commission for Aeronautics Secretariat, One McPherson Square, Suite 500, 1425 K Street, N.W., Washington, D.C. 20005.

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