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Minimum Performance Standards-Airborne HF Radio Communications Transmitting and Receiving Equipment Operating Within the Radio-Frequency Range of 1.5 to 30 MHz

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F O R E W O R D

This Document was prepared by Special Committee 131 of the Radio Technical Commission for Aeronautics (RTCA). It was approved by RTCA on March 19, 1976.

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I N T R O D U C T I O N

This Document sets forth Minimum Performance Standards for airborne radio communications transmitting and receiving equipment operating within the radio-frequency range of 1.5 MHz to 30 MHz.

Compliance with these standards by manufacturers and users is recommended as a means of assuring that the equipment will satisfactorily perform its intended function under all conditions normally encountered in routine aeronautical operations.

In any application of these minimum performance standards, due allowance should be made, where necessary, for equipments in current use which do not fully meet the standards contained herein.

It is recognized that any regulatory application of these standards is the responsibility of governmental agencies.

Inasmuch as the measured values of radio equipment performance characteristics may be a function of the method of measurement, standard test conditions and methods of test are also recommended in this Document.

The word "equipment" as used in this Document includes all of the components or units necessary (as determined by the equipment manufacturer) for the equipment to properly perform its intended function. For example, HF "equipment" may include an antenna and coupler, a transmitter unit, a control box, a power supply, a shock mount, etc. In the case of this example, all of the foregoing components or units comprise the "equipment." It should not be inferred from this example, however, that every HF "equipment" will necessarily include all of the foregoing components. This will depend on the design used by the "equipment" manufacturer.

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S E C T I O N O N E

TRANSMITTERS

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MINIMUM PERFORMANCE STANDARDS - AIRBORNE HIGH FREQUENCY RADIO COMMUNICATIONS TRANSMITTING EQUIPMENT OPERATING WITHIN THE RADIO FREQUENCY RANGE OF 1.5 TO 30 MEGAHERTZ

1.0 GENERAL STANDARDS

1.1 Operation of Controls

The operation of controls intended for use during flight, in all possible combinations and sequences, shall not result in a condition whose presence or continuation would be detrimental to the continued performance of the equipment.

1.2 Accessibility of Controls

Controls which are not normally adjusted in flight shall not be readily accessibly to flight personnel.

1.3 Effects of Test

Unless otherwise provided, the design of the equipment shall be such that, subsequent to the application of the specified tests, no discernible condition exists which would be detrimental to the continued performance of the equipment.