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Minimum Performance Standards-Airborne Doppler Radar Navigation Equipment

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F O R E W O R D

This Document was prepared by International Coordination Group 13 (ICG-13), of the Radio Technical Commission for Aeronautics (RTCA). It was approved by RTCA on October 17, 1975, and supersedes RTCA Document DO-98, dated September 8, 1959, titled "Minimum Performance Standards - Airborne Doppler Radar Ground Speed and/or Drift Angle Measuring Equipment", and DO-104, dated June 8, 1960, titled "Minimum Performance Standards - Airborne Automatic Dead Reckoning Computer Equipment Utilizing Aircraft Heading and Doppler-Obtained Ground Speed and Drift Angle Data."

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Coordination of these standards was accomplished by RTCA ICG-13 and the European Organization for Civil Aviation Electronics (EUROCAE) Working Group 7C (WG 7C). EUROCAE concurs with RTCA on the Minimum Performance Standards (MPS) set forth herein as being compatible with those contained in EUROCAE Documents MPS/WG 7C/1-74 and 2-74.

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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 Doppler Radar Navigation Equipment.

Compliance with these standards is recommended as a means of assuring that the equipment will satisfactorily perform its intended functions under all conditions normally encountered in 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 herein 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, an Airborne Doppler Radar Navigation "Equipment" may include an antenna, a control box, an indicator, a transmitter-receiver, a computer, 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 "equipment" will necessarily include all of the foregoing components. This will depend on the design used by the "equipment" manufacturer.