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Minimum Performance Standards Airborne Low-Range Radar Altimeters

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ICG-2

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F O R E W O R D

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

This Document sets forth minimum performance standards for those characteristics of the airborne low-range radar altimeter which are essential for its operation in applications which provide measured height above terrain for clearance and landing data. The potentially diverse range of applications for this equipment precludes the precise definition of the term "low-range." It should be recognized that very limited capabilities may suffice in some installations while other installations may require a broader range of altitude (height) data. The maximum range envisioned by system designers at the date of this Document is of the order of 2500 feet.

The term "altitude" shall be defined for the purposes of this Document as height or distance from the terrain to the altimeter antennas.

Compliance with these standards is recommended as a means of assuring that the equipment will satisfactorily perform its intended functions over all conditions normally encountered in routine aeronautical operations.

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

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MINIMUM PERFORMANCE STANDARDS
AIRBORNE LOW-RANGE RADAR ALTIMETERS

1.0 GENERAL STANDARDS

1.1 Operation of Controls

The operation of controls intended for use during flight, at all possible position 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 accessible to flight personnel.

1.3 Effects of Tests

Unless otherwise stated, the application of the specified tests shall produce no subsequently discernible condition which would be detrimental to the continued performance of the equipment.