

Federal Aviation Administration, DOT

(4) From 100 MHz to 8 GHz, use radiated susceptibility tests at a minimum of 5 V/m.

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PART 31—AIRWORTHINESS STAND-ARDS: MANNED FREE BAL-LOONS

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APPENDIX A TO PART 31—INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

Authority: 49 U.S.C. 106(g), 40113, 44701–44702, 44704.

Source: Docket No. 1437, 29 FR 8258, July 1, 1964, as amended by Amdt. 31–1, 29 FR 14563, Oct. 24, 1964, unless otherwise noted.

Subpart A—General

§31.1 Applicability.

- (a) This part prescribes airworthiness standards for the issue of type certificates and changes to those certificates, for manned free balloons.
- (b) Each person who applies under Part 21 for such a certificate or change must show compliance with the applicable requirements of this part.
 - (c) For purposes of this part—
- (1) A captive gas balloon is a balloon that derives its lift from a captive lighter-than-air gas;
- (2) A hot air balloon is a balloon that derives its lift from heated air;
- (3) The envelope is the enclosure in which the lifting means is contained;
- (4) The basket is the container, suspended beneath the envelope, for the balloon occupants;
- (5) The trapeze is a harness or is a seat consisting of a horizontal bar or platform suspended beneath the envelope for the balloon occupants; and
- (6) The design maximum weight is the maximum total weight of the balloon, less the lifting gas or air.

[Doc. No. 1437, 29 FR 8258, July 1, 1964, as amended by Amdt. 31–3, 41 FR 55474, Dec. 20, 1976]

Subpart B—Flight Requirements

§31.12 Proof of compliance.

- (a) Each requirement of this subpart must be met at each weight within the range of loading conditions for which certification is requested. This must be shown by—
- (1) Tests upon a balloon of the type for which certification is requested or by calculations based on, and equal in accuracy to, the results of testing; and
- (2) Systematic investigation of each weight if compliance cannot be reasonably inferred from the weights investigated.