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Appendix A to Part 33—Instructions for Continued Airworthiness

Appendix B to Part 33—Certification Standard Atmospheric Concentrations of Rain and Hail

§ 33.5

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

Source: Docket No. 3025, 29 FR 7453, June 10, 1964, unless otherwise noted.

Note: For miscellaneous amendments to cross references in this Part 33, see Amdt. 33–2, 31 FR 9211, July 6, 1966.
§ 33.7 Engine ratings and operating limitations.

(a) Engine ratings and operating limitations are established by the Administrator and included in the engine certificate data sheet specified in §21.41 of this chapter, including ratings and limitations based on the operating conditions and information specified in this section, as applicable, and any other information found necessary for safe operation of the engine.

(b) For reciprocating engines, ratings and operating limitations are established relating to the following:

1. Horsepower or torque, r.p.m., manifold pressure, and time at critical pressure altitude and sea level pressure altitude for—
   (i) Rated maximum continuous power (relating to unsupercharged operation or to operation in each supercharger mode as applicable); and
   (ii) Rated takeoff power (relating to unsupercharged operation or to operation in each supercharger mode as applicable).

2. Fuel grade or specification.

3. Oil grade or specification.

4. Temperature of the—
   (i) Cylinder;
   (ii) Oil at the oil inlet; and
   (iii) Turbosupercharger turbine wheel inlet gas.

5. Pressure of—
   (i) Fuel at the fuel inlet; and
   (ii) Oil at the main oil gallery.

6. Accessory drive torque and overhang moment.

7. Component life.

8. Turbosupercharger turbine wheel r.p.m.