# Subpart D—Block Tests; Reciprocating Aircraft Engines

- 33.41 Applicability.
- 33.42 General.
- 33.43 Vibration test.
- 33.45 Calibration tests.
- 33.47 Detonation test. 33.49 Endurance test.
- 33.51 Operation test
- 33.53 Engine system and component tests.
- 33.55 Teardown inspection.
- 33.57 General conduct of block tests.

### Subpart E—Design and Construction; Turbine Aircraft Engines

- 33.61 Applicability.
- 33.62 Stress analysis.
- 33.63 Vibration.
- 33.64 Pressurized engine static parts.
- 33.65 Surge and stall characteristics.
- 33.66 Bleed air system.
- 33.67 Fuel system.
- 33.68 Induction system icing.
- 33.69 Ignitions system.
- 33.70 Engine life-limited parts.
- 33.71 Lubrication system.
- 33.72 Hydraulic actuating systems.
- 33.73 Power or thrust response.
- 33.74 Continued rotation.
- 33.75 Safety analysis.
- 33.76 Bird ingestion.
- 33.77 Foreign object ingestion—ice.
- 33.78 Rain and hail ingestion.
- 33.79 Fuel burning thrust augmentor.

## Subpart F—Block Tests; Turbine Aircraft Engines

- 33.81 Applicability.
- 33.82 General.
- 33.83 Vibration test.
- 33.84 Engine overtorque test.
- 33.85 Calibration tests.
- 33.87 Endurance test.
- 33.88 Engine overtemperature test.
- 33.89 Operation test.
- 33.90 Initial maintenance inspection test.
- 33.91 Engine system and component tests.
- 33.92 Rotor locking tests.
- 33.93 Teardown inspection.
- 33.94 Blade containment and rotor unbalance tests.
- 33.95 Engine-propeller systems tests.
- 33.96 Engine tests in auxiliary power unit (APU) mode.
- 33.97 Thrust reversers.
- 33.99 General conduct of block tests.

# Subpart G—Special Requirements: Turbine Aircraft Engines

33.201 Design and test requirements for Early ETOPS eligibility.

APPENDIX A TO PART 33—INSTRUCTIONS FOR CONTINUED AIRWORTHINESS APPENDIX B TO PART 33—CERTIFICATION STANDARD ATMOSPHERIC CONCENTRATIONS OF RAIN AND HAIL

APPENDIX C TO PART 33 [RESERVED]

APPENDIX D TO PART 33—MIXED PHASE AND ICE CRYSTAL ICING ENVELOPE (DEEP CON-VECTIVE CLOUDS)

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.

## Subpart A—General

#### § 33.1 Applicability.

- (a) This part prescribes airworthiness standards for the issue of type certificates and changes to those certificates, for aircraft engines.
- (b) Each person who applies under part 21 for such a certificate or change must show compliance with the applicable requirements of this part and the applicable requirements of part 34 of this chapter.

[Amdt. 33–7, 41 FR 55474, Dec. 20, 1976, as amended by Amdt. 33–14, 55 FR 32861, Aug. 10, 1990]

## §33.3 General.

Each applicant must show that the aircraft engine concerned meets the applicable requirements of this part.

# § 33.4 Instructions for Continued Airworthiness.

The applicant must prepare Instructions for Continued Airworthiness in accordance with appendix A to this part that are acceptable to the Administrator. The instructions may be incomplete at type certification if a program exists to ensure their completion prior to delivery of the first aircraft with the engine installed, or upon issuance of a standard certificate of airworthiness for the aircraft with the engine installed, whichever occurs later.

[Amdt. 33-9, 45 FR 60181, Sept. 11, 1980]

# § 33.5 Instruction manual for installing and operating the engine.

Each applicant must prepare and make available to the Administrator