

**§ 34.63**

Mode	Class		
	TP	TF, T3, T8	TSS
Taxi/idle .....	26.0 Min.	26.0 Min.	26.0 Min.
Takeoff .....	0.5	0.7	1.2
Climbout .....	2.5	2.2	2.0
Descent .....	N/A	N/A	1.2
Approach .....	4.5	4.0	2.3

(b) Emissions testing shall be conducted on warmed-up engines which have achieved a steady operating temperature.

[Doc. No. 25613, 55 FR 32861, Aug. 10, 1990; 55 FR 37287, Sept. 10, 1990, as amended by Amdt. 34-3, 64 FR 5559, Feb. 3, 1999]

**§ 34.63 [Reserved]**

**§ 34.64 Sampling and analytical procedures for measuring gaseous exhaust emissions.**

The system and procedures for sampling and measurement of gaseous emissions shall be as specified in Appendices 3 and 5 to the International Civil Aviation Organization (ICAO) Annex 16, Environmental Protection, Volume II, Aircraft Engine Emissions, Second Edition, July 1993, effective March 20, 1997. This incorporation by reference was approved by the Director of the Federal Register in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. This document can be obtained from the International Civil Aviation Organization (ICAO), Document Sales Unit, P.O. Box 400, Succursale: Place de L'Aviation Internationale, 1000 Sherbrooke Street West, Suite 400, Montreal, Quebec, Canada H3A 2R2. Copies may be reviewed at the FAA Office of the Chief Counsel, Rules Docket, Room 916, Federal Aviation Administration Headquarters Building, 800 Independence Avenue, SW., Washington, DC, or at the FAA New England Regional Office, 12 New England Executive Park, Burlington, Massachusetts, or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: [http://www.archives.gov/federal\\_register/code\\_of\\_federal\\_regulations/ibr\\_locations.html](http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html).

[Doc. No. FAA-1999-5018, 64 FR 5559, Feb. 3, 1999; Amdt. 34-3, 64 FR 60336, Nov. 5, 1999; 69 FR 18803, Apr. 9, 2004]

**14 CFR Ch. I (1-1-08 Edition)**

**§§ 34.65-34.70 [Reserved]**

**§ 34.71 Compliance with gaseous emission standards.**

Compliance with each gaseous emission standard by an aircraft engine shall be determined by comparing the pollutant level in grams/kilonewton/thrust/cycle or grams/kilowatt/cycle as calculated in §34.64 with the applicable emission standard under this part. An acceptable alternative to testing every engine is described in Appendix 6 to ICAO Annex 16, Environmental Protection, Volume II, Aircraft Engine Emissions, Second Edition, July 1993, effective July 26, 1993. This incorporation by reference was approved by the Director of the Federal Register in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. This document can be obtained from, and copies may be reviewed at, the respective addresses listed in §34.64. Other methods of demonstrating compliance may be approved by the FAA Administrator with the concurrence of the Administrator of the EPA.

[Doc. No. FAA-1999-5018, 64 FR 5559, Feb. 3, 1999; Amdt. 34-3, 64 FR 60336, Nov. 5, 1999]

**Subpart H—Test Procedures for Engine Smoke Emissions (Aircraft Gas Turbine Engines)**

**§ 34.80 Introduction.**

Except as provided under §34.5, the procedures described in this subpart shall constitute the test program to be used to determine the conformity of new and in-use gas turbine engines with the applicable standards set forth in this part. The test is essentially the same as that described in §§34.60-34.62, except that the test is designed to determine the smoke emission level at various operating points representative of engine usage in aircraft. Other smoke measurement systems may be used if shown to yield equivalent results and if approved in advance by the Administrator or the Administrator of the EPA.

**§ 34.81 Fuel specifications.**

Fuel having specifications as provided in §34.61 shall be used in smoke emission testing.