

TABLE 3 OF § 1039.101

If . . .	or . . .	then . . .
(i) The engine family is certified to a NO <sub>x</sub> standard less than 2.00 g/kW-hr without using ABT.	The engine family is certified to a NO <sub>x</sub> FEL less than 2.00 g/kW-hr (or an NO <sub>x</sub> +NMHC FEL less than 2.20 g/kW-hr).	The multipliers for NMHC, NO <sub>x</sub> and/or NO <sub>x</sub> + NMHC are 1.50.
(ii) The engine family is certified to a PM standard less than 0.07 g/kW-hr without using ABT.	The engine family is certified to a PM FEL less than 0.07 g/kW-hr.	The multiplier for PM is 1.50

(4) (i) There are two sets of specifications of ambient operating regions that apply for NTE testing. You must choose one set for each engine family. You may choose separately for each engine family. You must indicate your choice of ambient operating region in your application for certification. The region that you choose will apply for all NTE testing of engines in your engine family. You must choose one of the following two ambient operating regions:

(A) All altitudes less than or equal to 5,500 feet above sea level, during all ambient conditions (temperature and humidity).

(B) All altitudes less than or equal to 5,500 feet above sea level, for temperatures less than or equal to the temperature determined by the following equation at the specified altitude;

$$T = -0.00254 \times A + 100$$

Where:

T = ambient air temperature in

degrees Fahrenheit.

A = altitude in feet above sea level (A is negative for altitudes below sea level).

(ii) Temperature and humidity ranges for which correction factors are allowed are specified in 40 CFR 86.1370–2007(e).

(A) If you choose the ambient operating region specified in paragraph (c)(4)(i)(A) of this section, then the temperature and humidity ranges for which correction factors are allowed are defined under 40 CFR 86.1370–2007(e)(1).

(B) If you choose the ambient operating region specified in paragraph (c)(4)(i)(B) of this section, then the temperature and humidity ranges for which correction factors are allowed are defined under 40 CFR 86.1370–2007(e)(2).

(5) For engines equipped with exhaust-gas recirculation, the NTE emission limits of this section do not apply during cold operating conditions as specified in 40 CFR 86.1370–2007(f).

(6) For engines certified to an FEL less than 0.01 g/kW-hr PM, the PM NTE is 0.02 g/kW-hr.

(e) [Reserved]

(f) *Fuel types.* The exhaust emission standards in this section apply for engines using each type of fuel on which the engines in the engine family are designed to operate. You must meet the numerical emission standards for NMHC in this section based on the following types of hydrocarbon emissions for engines powered by the following fuels:

(1) Diesel-fueled engines: NMHC emissions.

(2) Natural gas-fueled engines: NMHC emissions.

(3) Alcohol-fueled engines: THCE emissions.

(g) *Useful life.* (1) Your engines must meet the exhaust emission standards in paragraphs (a) through (d) of this section over their full useful life. The useful life values are shown in the following table:

TABLE 4 OF § 1039.101

If your engine is certified as . . .	And its maximum power is . . .	And its rated speed is . . .	Then its useful life is . . .
Variable speed or constant speed	Less than 19 kW	Any speed	3,000 hours or five years, whichever comes first.
Constant speed	At least 19 kW, but less than 37 kW.	3,000 rpm or higher	3,000 hours or five years, whichever comes first.
Constant speed	At least 19 kW, but less than 37 kW.	Less than 3,000 rpm	5,000 hours or seven years, whichever comes first.
Variable speed	At least 19 kW, but less than 37 kW.	Any speed	5,000 hours or seven years, whichever comes first.
Variable speed or constant speed	37kW or higher	Any speed	8,000 hours or ten years, whichever comes first.

(2) You may request in your application for certification that we approve a shorter useful life for an engine family. We may approve a shorter useful life if we determine that these engines will rarely operate longer than the alternate useful life. Your demonstration must include documentation from in-use engines.

Your demonstration must also include any overhaul interval that you recommend and any mechanical warranty that you offer for the engine.

(h) *Applicability for testing.* The emission standards in this subpart apply to all testing, including certification, selective enforcement audits and in-use testing.

(i) *Alternate FEL caps.* You are allowed to certify a limited number of engines to FELs higher than the caps listed in Table 2 of this section. The FEL caps shown in Table 5 of this section apply instead of the otherwise applicable FEL caps, subject to the sales limits listed in the table.