

## 40 C.F.R. § 1048.101

## What exhaust emission standards must my engines meet?

The exhaust emission standards of this section apply by model year. You may certify engines earlier than we require. The Tier 1 standards apply only to steady-state testing, as described in paragraph (b) of this section. The Tier 2 standards apply to steady-state, transient, and field testing, as described in paragraphs (a), (b), and (c) of this section.

- (a) *Emission standards for transient testing.* Starting in the 2007 model year, transient exhaust emissions from your engines may not exceed the Tier 2 emission standards, as follows:
- (1) Measure emissions using the applicable transient test procedures described in subpart F of this part.
- (2) The Tier 2 HC +  $NO_X$  standard is 2.7 g/kW-hr and the Tier 2 CO standard is 4.4 g/kW-hr. For severe-duty engines, the Tier 2 HC +  $NO_X$  standard is 2.7 g/kW-hr and the Tier 2 CO standard is 130.0 g/kW-hr. The following engines are not subject to the transient standards in this paragraph (a):
- (i) High-load engines.
- (ii) Engines with maximum engine power above 560 kW.
- (iii) Engines with maximum test speed above 3400 rpm.
- (iv) Constant-speed engines and severe-duty engines.
  - (3) You may optionally certify your engines according to the following formula instead of the standards in paragraph (a)(1) of this section: (HC + NO<sub>X</sub>) × CO  $^{0.784} \le 8.57$ . The HC + NO<sub>X</sub> and CO emission levels you select to satisfy this formula, rounded to the nearest 0.1 g/kW-hr, become the emission standards that apply for those engines. You may not select an HC + NO<sub>X</sub> emission standard higher than 2.7 g/kW-hr or a CO emission standard higher than 20.6 g/kW-hr. The following table illustrates a range of possible values under this paragraph (a)(3):

Table 1 of § 1048.101—Examples of Possible Tier 2 Duty-cycle Emission Standards

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