

TABLE 5 OF § 1039.101.—ALTERNATE FEL CAPS

Power category	Model years	Maximum percentage of production that may be certified to using these alternate FEL caps	NO _x FEL cap (g/kW-hr)	PM FEL cap (g/kW-hr)
19 ≤ kW < 56	2013–2016 2017+	10 5	Not applicable ..	0.30
56 ≤ kW < 130	2012–2013 2014–2015 2016+	10 10 5	Not applicable .. 4.4 for kW < 75 3.8 for kW ≥ 75 2014–2015.	0.40 for hp < 75 0.30 for hp ≥ 75
130 ≤ kW ≤ 560	2011–2013 2014 2015+	10 10 5	Not applicable ... 3.8.	0.20
kW > 560	2014–2017 2018+	10 5	6.2	0.20

(j) *Optional PM standard for engines under 8 kW.* You may certify certain engines under 8 kW to the optional Tier 4 PM standard of 0.60 g/kW-hr, instead of the PM standard listed in Table 1 of this section, as described in this paragraph.

(1) The provisions of this paragraph (j) are available only for engines with maximum engine power under 8 kW that are hand-startable, air-cooled, and direct injection. The term hand-startable generally refers to engines that are started using a hand crank or pull cord.

(2) Engines certified under paragraphs (j)(3)(i) or (ii) may not be used to generate positive emission credits under the ABT provisions of subpart H of this part.

(3)(i) The applicable standard for model years 2008 and 2009 under this paragraph (j) is 0.80 g/kW-hr.

(ii) Starting with model year 2010 standard under this paragraph (j) is 0.60 g/kW-hr standard.

(4) The FEL cap for engines certified under this paragraph (j) is 0.80 g/kW-hr.

§ 1039.102 What exhaust emission standards must my engines meet before model year 2014?

The exhaust emission standards of this section apply for the model years specified in Tables 1 through 6 of this section. See § 1039.101 for exhaust emission standards that apply to later model years. See 40 CFR 89.112 for exhaust emission standards that apply to model years before those listed in the tables.

(a) *Emission standards for transient testing.* Transient exhaust emissions from your engines may not exceed the applicable emission standards in Tables

1 through 6 of this section. Measure emissions using the applicable transient test procedures described in subpart F of this part. The transient standards do not apply for the following cases:

(1) Engines less than or equal to 37 kW in model years before 2013.

(2) Phase-out engines over 560 kW that are certified using the carry-over provisions of § 1039.235(d).

(b) *Emission standards for steady-state testing.* Steady-state exhaust emissions from your engines may not exceed the applicable emission standards listed in Tables 1 through 6 of this section. Measure emissions using the applicable steady-state test procedures described in subpart F of this part.

TABLE 1 OF § 1039.102—INTERIM TIER 4 EXHAUST EMISSIONS STANDARDS FOR ENGINES 19≤kW<37

Model years	Emissions standard g/kW-hr		
	PM	NO _x +NMHC	CO
2008–2012	0.30	7.5	5.0

TABLE 2 OF § 1039.102.—INTERIM TIER 4 EXHAUST EMISSIONS STANDARDS FOR ENGINES 37≤kW<56

	Model years	Emissions standard g/kW-hr		
		PM	NO _x +NMHC	CO
Option No. 1	2008–2012	0.30	4.7	5.0
Option No. 2	2012 (optional)	0.03	4.7	5.0