

40 C.F.R. § 1045.103

What exhaust emission standards must my outboard and personal watercraft engines meet?

(a) Duty-cycle emission standards. Starting in the 2010 model year, exhaust emissions from your outboard and personal watercraft engines may not exceed emission standards as follows:

- (1) Measure emissions using the applicable steady-state test procedures described in subpart F of this part.
- (2) The exhaust emission standards from the following table apply:

Table 1 to § 1045.103—Emission Standards for Outboard and Personal Watercraft Engines (g/kW-hr)

Pollutant	Power ¹	Emission standard
HC + NO _x	P ≤ 4.3 kW	30.0
	P > 4.3 kW	2.1 + 0.09 × (151 + 557/P ^{0.9})
CO	P ≤ 4.0 kW	500 - 5.0 × P
	P > 4.0 kW	300

¹ Power (P) = maximum engine power for the engine family, in kilowatts (kW).

(3) For engines whose standard depends on maximum engine power, round the calculated HC + NO_x emission standard to the nearest 0.1 g/kW-hr; round the calculated CO emission standard to the nearest g/kW-hr. Determine maximum engine power for the engine family as described in § 1045.140.

(b) *Averaging, banking, and trading.* You may generate or use emission credits under the averaging, banking, and trading (ABT) program described in subpart H of this part for demonstrating compliance with HC + NO_x emission standards. For CO emissions, you may generate or use emission credits for averaging as described in subpart H of this part, but such credits may not be banked or traded. To generate or use emission credits, you must specify a family emission limit for each pollutant you include in the ABT program for each engine family. These family emission limits serve as the emission standards for the engine family with respect to all required testing instead of the standards specified in this section. An engine family meets emission standards even if its family emission limit is higher than the standard, as long as you show that the whole averaging set of applicable engine families meets the emission standards using emission credits and the engines within the family meet the family emission limit. The following FEL caps apply:

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