

**Environmental Protection Agency**

**§ 1051.103**

(b) You must follow the engine manufacturer's emission-related installation instructions, as described in §1051.135 and 40 CFR 1068.105. For example, you must use a fuel system that meets the permeation requirements of this part, consistent with the engine manufacturer's instructions.

(c) If you install the engine in a way that makes the engine's emission control information label hard to read during normal engine maintenance, you must place a duplicate label on the vehicle, as described in 40 CFR 1068.105.

**Subpart B—Emission Standards and Related Requirements**

**§ 1051.101 What emission standards and other requirements must my vehicles meet?**

(a) You must show that your vehicles meet the following:

(1) The applicable exhaust emission standards in §1051.103, §1051.105, or §1051.107.

(i) For snowmobiles, see §1051.103.

(ii) For off-highway motorcycles, see §1051.105.

(iii) For all-terrain vehicles and offroad utility vehicles subject to this part, see §1051.107.

(2) The evaporative emission standards in §1051.110.

(3) All the requirements in §1051.115.

(b) The certification regulations in subpart C of this part describe how you make this showing.

(c) These standards and requirements apply to all testing, including produc-

tion-line and in-use testing, as described in subparts D and E of this part.

(d) Other sections in this subpart describe other requirements for manufacturers such as labeling or warranty requirements.

(e) It is important that you read §1051.145 to determine if there are other interim requirements or interim compliance options that apply for a limited time.

(f) As is described in §1051.1(a)(4), offroad utility vehicles that are subject to this part are subject to the same requirements as ATVs.

**§ 1051.103 What are the exhaust emission standards for snowmobiles?**

(a) Apply the exhaust emission standards in this section by model year. Measure emissions with the snowmobile test procedures in subpart F of this part.

(1) Follow Table 1 of this section for exhaust emission standards. You may use the averaging, banking, and trading provisions of subpart H of this part to show compliance with these standards (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 meet the applicable emission standards using emission credits, and the vehicles within the family meet the family emission limit). Table 1 also shows the maximum value you may specify for a family emission limit, as follows:

TABLE 1 OF § 1051.103—EXHAUST EMISSION STANDARDS FOR SNOWMOBILES (G/KW-HR)

Phase	Model year	Phase-in (percent)	Emission standards			Maximum allowable family emission limits		
			HC	HC+NO <sub>x</sub>	CO	HC	HC+NO <sub>x</sub>	CO
Phase 1 .....	2006 .....	50	100	.....	275	.....	.....	.....
Phase 1 .....	2007–2009 .....	100	100	.....	275	.....	.....	.....
Phase 2 .....	2010 and 2011 .....	100	75	.....	275	.....	.....	.....
Phase 3 .....	2012 and later .....	100	75	( <sup>1</sup> )	( <sup>1</sup> )	150	165	400

<sup>1</sup> See § 1051.103(a)(2).

(2) For Phase 3, the HC+NO<sub>x</sub> and CO standards are defined by a functional relationship. Choose your corporate average HC+NO<sub>x</sub> and CO standards for

each model year according to the following criteria:

(i) Prior to production, select the HC+NO<sub>x</sub> standard and CO standard

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(specified as g/kW-hr) so that the combined percent reduction from baseline emission levels is greater than or equal

to 100 percent; that is, that the standards comply with the following equation:

$$\left(1 - \frac{(\text{HC} + \text{NO}_x)_{\text{STD}} - 15}{150}\right) \times 100 + \left(1 - \frac{\text{CO}_{\text{STD}}}{400}\right) \times 100 \geq 100$$

(ii) Your corporate average HC+NO<sub>x</sub> standard may not be higher than 90 g/kW-hr.

(iii) Your corporate average CO standard may not be higher than 275 g/kW-hr.

(iv) You may use the averaging and banking provisions of subpart H of this part to show compliance with these HC+NO<sub>x</sub> and CO standards in this paragraph (a)(2). You may modify your selection of the HC+NO<sub>x</sub> and CO standards at the end of the model year under paragraph (a)(2)(i) of this section. You must comply with these final corporate average emission standards.

(b) Apply the exhaust emission standards in this section for snowmobiles using each type of fuel specified in 40 CFR part 1065, subpart C, for which they are designed to operate. You must meet the numerical emission standards for hydrocarbons in this section based on the following types of hydrocarbon emissions for snowmobiles powered by the following fuels:

(1) Gasoline- and LPG-fueled snowmobiles: THC emissions.

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

(3) Alcohol-fueled snowmobiles: THCE emissions.

(c) Your snowmobiles must meet emission standards over their full useful life (§1051.240 describes how to use deterioration factors to show this). The minimum useful life is 8,000 kilometers, 400 hours of engine operation, or five calendar years, whichever comes first. You must specify a longer useful life in terms of kilometers and hours for the engine family if the average service life of your vehicles is longer than the minimum value, as follows:

(1) Except as allowed by paragraph (c)(2) of this section, your useful life (in kilometers and hours) may not be less than either of the following:

(i) Your projected operating life from advertisements or other marketing materials for any vehicles in the engine family.

(ii) Your basic mechanical warranty for any engines in the engine family.

(2) Your useful life may be based on the average service life of vehicles in the engine family if you show that the average service life is less than the useful life required by paragraph (c)(1) of this section, but more than the minimum useful life (8,000 kilometers or 400 hours of engine operation). In determining the actual average service life of vehicles in an engine family, we will consider all available information and analyses. Survey data is allowed but not required to make this showing.

**§ 1051.105 What are the exhaust emission standards for off-highway motorcycles?**

(a) Apply the exhaust emission standards in this section by model year. Measure emissions with the off-highway motorcycle test procedures in subpart F of this part.

(1) Follow Table 1 of this section for exhaust emission standards. You may use the averaging, banking, and trading provisions of subpart H of this part to show compliance with the HC+NO<sub>x</sub> and/or CO standards (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 meet the applicable emission standards using emission credits, and the vehicles within the family meet the family emission limit). The phase-in values specify the percentage of your U.S.-directed production that must comply with the emission standards for those model