

Summary of Requirements¹

40 CFR part 60, subpart JJJJ

Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

For engines less than or equal to 25 horsepower,
constructed after June 12, 2006 and manufactured on or after July 1, 2008

NOTE: To refer directly to the regulatory text, please go to [Subpart JJJJ](#) (scroll down to almost the end of the page).

Emission Standards: 60.4231(a) and 60.4233(a)

60.4231(a) Stationary SI internal combustion engine manufacturers must certify their stationary SI ICE with a maximum engine power less than or equal to 19 KW (25 HP) manufactured on or after July 1, 2008 to the certification emission standards and other requirements for new nonroad SI engines in 40 CFR part 90 or 1054, as follows:

If engine displacement is	and manufacturing dates are	the engine must meet emission standards and related requirements for nonhandheld engines under
(1) below 225 cc	July 1, 2008 to December 31, 2011	40 CFR part 90.
(2) below 225 cc	January 1, 2012 or later	40 CFR part 1054.
(3) at or above 225 cc	July 1, 2008 to December 31, 2010	40 CFR part 90.
(4) at or above 225 cc	January 1, 2011 or later	40 CFR part 1054.

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60.4233(a): Owners and operators of stationary sparking ignition internal combustion engine with a maximum engine power less than or equal to 19 KW (25 HP) manufactured on or after July 1, 2008, must comply with the emission standards in §60.4231(a) for their stationary sparking ignition internal combustion engine.

Fuel Requirements: If using gasoline: 60.4235

60.4235: Owners and operators of stationary SI ICE subject to this subpart that use gasoline must use gasoline that meets the per gallon sulfur limit in 40 CFR 80.195.

Importing/Installing Requirements: 60.4236(a),(d)

60.4236(a) After July 1, 2010, owners and operators may not install stationary SI ICE with a maximum engine power of less than 500 HP that do not meet the applicable requirements in §60.4233.

60.4236(d) In addition to the requirements specified in §§60.4231 and 60.4233, it is prohibited to import stationary SI ICE less than or equal to 19 KW (25 HP), stationary rich burn LPG SI ICE, and stationary gasoline SI ICE that do not meet the applicable requirements specified in paragraphs (a), (b), and (c) of this section, after the date specified in paragraph (a), (b), and (c) of this section.

Compliance Requirements for Engines Being Operated and Maintained in a Certified Manner:

If you operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, you are operating in a certified manner.

General Compliance: 60.4234, 60.4243(a)(1), 40 CFR part 1068, subparts A-D, as applicable.

60.4234: Owners and operators of stationary SI ICE must operate and maintain stationary SI ICE that achieve the emission standards as required in §60.4233 over the entire life of the engine.

60.4243(a)(1) If you operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, you must keep records of conducted maintenance to demonstrate compliance, but no performance testing is required if you are an owner or operator. You must also meet the requirements as specified in 40 CFR part 1068, subpart A-D, as applicable, as they apply to you. If you adjust engine settings according to and consistent with the manufacturer's instructions, your stationary SI internal combustion engine will not be considered out of compliance.

If using Air-to-Fuel Ratio Controller: 60.4243(g)

60.4243(g) It is expected that air-to-fuel ratio controllers will be used with the operation of three-way catalysts/non-selective catalytic reduction. The AFR controller must be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times.

Performance Testing: No Requirements

Compliance Requirements for Engines Being Operated and Maintained in a non-Certified Manner:

If you do not operate and maintain the certified stationary SI internal combustion engine and control device according to manufacturer's emission-related written instructions, your engine will be considered a non-certified engine.

General Compliance: 60.4234, 60.4243(a)(2)(i)

60.4234: Owners and operators of stationary sparking ignition internal combustion engine must operate and maintain stationary sparking ignition internal combustion engine that achieve the emission standards as required in §60.4233 over the entire life of the engine.

60.4243(a)(2)(i): If you are an owner or operator of a stationary SI internal combustion engine less than 100 HP, you must keep a maintenance plan and records of conducted maintenance to demonstrate compliance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions, but no performance testing is required if you are an owner or operator.

If using Air-to-Fuel Ratio Controller: 60.4243(g)

60.4243(g) It is expected that air-to-fuel ratio controllers will be used with the operation of three-way catalysts/non-selective catalytic reduction. The AFR controller must be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times.

Performance Testing: No requirements

Notification, Reports, and Requirements: 60.4245(a)

60.4245(a) Owners and operators of all stationary SI ICE must keep records of the information in paragraphs (a)(1) through (4) of this section.

- (1) All notifications submitted to comply with this subpart and all documentation supporting any notification.
- (2) Maintenance conducted on the engine.
- (3) If the stationary SI internal combustion engine is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 90, 1048, 1054, and 1060, as applicable.
- (4) If the stationary SI internal combustion engine is not a certified engine or is a certified engine operating in a non-certified manner and subject to §60.4243(a)(2), documentation that the engine meets the emission standards.

General Provisions (40 CFR part 60): 60.4246, Table 3

60.4246: Table 3 to this subpart shows which parts of the General Provisions in §60.1 through §60.19 apply to you.