



Kansas Department of Health and Environment – Bureau of Air  
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## **Standards of Performance for Stationary Spark Ignition Internal Combustion Engines 40 CFR Part 60, Subpart JJJJ**

### **Introduction**

This guidance document is to assist **owners and operators** of stationary, spark ignition (SI), internal combustion engines (ICE) in determining their requirements under the new source performance standard (NSPS), [40 CFR part 60, subpart JJJJ](#). Part of the rule also applies to **manufacturers** of SI ICE and will not be addressed in this document.

Gather the following information about your engine:

- Certified or non-certified by the manufacturer
- Emergency or non-emergency
- Fuel burned
- Lean burn or rich burn
- Size in horsepower (hp)
- Construction date
- Manufacture date
- Horsepower

#### ***Certified, stationary, internal combustion engine***

means an engine belonging to a family with a certificate of conformity that complies with emission standards and requirements in this part; or of 40 CFR parts 90, 1048 or 1054, as appropriate.

### **Does this rule apply to your facility? [40 CFR Part 60.4230]**

You are subject to the rules of NSPS subpart JJJJ if you own/operate a stationary SI ICE whose construction date (date the engine was ordered by the owner or operator) began after June 12, 2006, and was manufactured —

- on or after July 1, 2007, and has  $\geq 500$  hp (except lean-burn engines  $\geq 500$  hp and  $< 1350$  hp);
- on or after July 1, 2008, for lean-burn engines  $\geq 500$  hp and  $< 1350$  hp;
- on or after July 1, 2008, for engines  $< 500$  hp; or
- on or after Jan. 1, 2009, for emergency engines  $> 25$  hp.

This rule also applies if your SI ICE was *modified* or *reconstructed* after June 12, 2006.

A *modified* engine means it undergoes “any physical change in the method of operation . . . which increases the amount of any air pollutant emitted by such source or which results in the emission of any air pollutant not previously emitted.” (40 CFR 60.14)

A *reconstructed* engine means if components are replaced to such an extent that the capital cost of the new components exceeds 50 percent of what is believed to be the cost of a completely new engine and ancillary equipment. (40 CFR 60.15)

### **Navigation tools to determine specific requirements**

If you know you are subject to subpart JJJJ, EPA has a tool at <https://www3.epa.gov/ttn/atw/ice/quiz.html> to help determine requirements of a specific engine. If you are not sure whether you are subject to subpart JJJJ, use another EPA tool for engines at <https://www3.epa.gov/ttn/atw/rice/output/quiz.html>. Although this tool is to help with determining compliance requirements under NESHAP subpart ZZZZ, after answering successive questions, it will let you know if your engine is subject to NSPS subpart JJJJ.

### **Emission limits and rule requirements at a glance**

The following page is a quick overview of emission limits for non-certified engines. Consult the regulation’s citations on the next page for more detail regarding complying with requirements such as initial and subsequent performance testing, maintenance plans, recordkeeping and notifications.

### **Kansas Air Quality Act standards**

In addition to NSPS, your engine could be subject to Kansas air quality standards. References to help with compliance of air quality rules for engines are available at <http://www.sbeap.org/aqrules/engines>. If you have questions or need help with environmental compliance, including air permits, don’t hesitate to contact the Kansas Small Business Environmental Assistance Program at 800-578-8898 or [sbeap@ksu.edu](mailto:sbeap@ksu.edu). This is a free and confidential program located at Kansas State University.



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 40 CFR Part 60, Subpart JJJJ**

**Certified engines shall be operated to manufacturer’s specifications or follow non-certified requirements including an initial performance test within 1 year of start-up.**

**Non-certified engines 100<hp< 500 hp non-emergency (does not apply to gasoline and rich burn using propane)**

Manufactured between 7/1/08 and 12/31/10

Pollutant	Emission Limit (g/hp-hr)
NOx	2.0
CO	4.0
VOC	1.0

Manufactured on or after 1/1/11

Pollutant	Emission Limit (g/hp-hr)
NOx	1.0
CO	2.0
VOC	0.7

**Non-certified engines ≥ 500 hp non-emergency (does not apply to gasoline and rich burn using propane)**

Manufactured between 7/1/07 and 6/30/10  
 (lean burn natural gas & LPG, mfg date between 1/1/08 & 6/30/10)

Pollutant	Emission Limit (g/hp-hr)
NOx	2.0
CO	4.0
VOC	1.0

Manufactured on or after 7/1/10

Pollutant	Emission Limit (g/hp-hr)
NOx	1.0
CO	2.0
VOC	0.7

**Emergency**

Manufactured on or after January 1, 2009

Pollutant	Emission Limit (g/hp-hr) 25<hp<130	Emission Limit (g/hp-hr) ≥ 130 hp
NOx	10 (as NOx+HC)	2.0
CO	387	4.0
VOC	N/A	1.0

**Requirements (emergency):**

Monitoring Requirements 40 CFR 60.4237

**Requirements (emergency and non-emergency):**

Initial performance test with 180 days of startup, > 500 hp: subsequent performance testing every 8,760 hrs or 3 years, whichever comes first

Maintenance plan and maintenance records, operate consistent with good air pollution control practices

Compliance Requirements 40 CFR 60.4243

Testing Requirements 40 CFR 63.4244

Notification, Reports and Records 40 CFR 60.4245

Initial Notifications due for uncertified engines ≥ 500 hp, within 30 days of commencing construction

The owner/operator shall comply with all applicable provisions of 40 CFR Part 60, if a conflict exists between references in this document and the regulation, the regulation shall take precedence