











National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines (RICE Rule)



40 CFR 63 Subpart ZZZZ Major Source New Non-Emergency Spark Ignition 4-Stroke Lean Burn Engine <250 Horsepower



Compliance Requirements

You must comply with the Spark Ignition (SI) New Source Performance Standards (NSPS), as applicable, upon startup.





Spark Ignition New Source Performance Standards (SI NSPS)

You are subject to the SI NSPS (40 CFR 60 Subpart JJJJ) if your SI engine was:

-Constructed (ordered*) after June 12, 2006 AND manufactured on/after July 1, 2008

OR

-Modified/reconstructed after June 12, 2006



*NOTE: For the purposes of this rule, the date that construction commences is the date the engine is ordered by the owner or operator.



Spark Ignition New Source Performance Standards (SI NSPS)

If you are subject to the SI NSPS, you must meet these requirements:

- •Emission and Operating Limits, Testing Requirements, Monitoring Requirements:
 - See Table
 - •Must meet these standards for the life of the engine

•Fuel Requirements:

•Gasoline engines must use gas that meets the sulfur limit: cap of 80 ppm/gal



Photo credit: EPA



Spark Ignition New Source Performance Standards (SI NSPS)

If you are subject to the SI NSPS, you must meet these requirements:

•Compliance Requirements:

- •If you have a certified engine:
 - •Install, operate, and maintain engine according to manufacturer's instructions
 - •If you do not operate/maintain according to manufacturer's instructions for engines ≥100 HP:
 - -Keep maintenance plan and maintenance records, operate consistent with good air pollution control practices
 - -Initial performance test and retest if engine is rebuilt or undergoes major repair or maintenance
- •If you have a *non-certified* engine >25 HP:
 - Maintenance plan
 - •Initial test and retest if engine is rebuilt or undergoes major repair or maintenance

Recordkeeping/Reporting:

- Documentation of certification (EPA Certificate of Conformity)
- Records of engine maintenance
- •Notification of Intent to Conduct Performance Testing 30 days prior to test
- •Results of performance testing within 60 days of test



Engine Certification

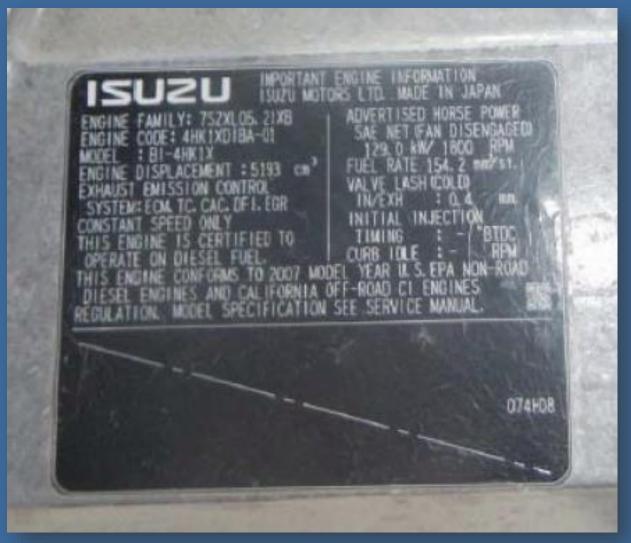




Photo credit: EPA

EPA Certificate of Conformity



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 2012 MODEL YEAR CERTIFICATE OF CONFORMITY WITH THE CLEAN AIR ACT OF 1990

OFFICE OF TRANSPORTATION AND AIR QUALITY ANN ARBOR, MICHIGAN 48105

Certificate Issued To: Generac Power Systems, Inc.

(U.S. Manufacturer or importer)

Certificate Number: CGNXB06.82NN-012

Effective Date: 10/26/2011

Expiration Date: 12/31/2012 Byron J. Burker, Acting Division Director

Compliance Division

Issue Date: 10/26/2011

Revision Date:

Manufacturer: Generac Power Systems, Inc.

Engine Family: CGNXB06.82NN

Certificate Number: CGNXB06.82NN-012 Certification Type: Stationary (Part 60)

Fuel: Natural Gas (CNG/LNG)

Emission Standards: NMHC + NOx (g/kW-hr): 13.4

CO (g/kW-hr) : 519 HC + NOx (g/kW-hr) : 13.4

Emergency Use Only: Y

Pursuant to Section 213 of the Clean Air Act (42 U.S.C. section 7547) and 40 CFR Part 60, 1065, 1068, and 60 (stationary only and combined stationary and mobile) and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued with respect to the test engines which have been found to conform to applicable requirements and which represent the following nonroad engines, by engine family, more fully described in the documentation required by 40 CFR Part 50 and produced in the stated model year.

This certificate of conformity covers only those new nonroad spark-ignition engines which conform in all material respects to the design specifications that applied to those engines described in the documentation required by 40 CFR Part 60 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Part 60. This certificate of conformity does not cover nonroad engines imported prior to the effective date of the certificate.

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 1068.20 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR Part 60. It is also a term of this certificate that this certificate may be revoked or suspended or rendered yould ab initio for other reasons specified in 40 CFR Part 60.

This certificate does not cover large nonroad engines sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.

Engine Category	Constructed/ Reconstructed/ Manufactured	Engine Type/ Fuel	Emission Standards	Importing/ Installing Requirements ⁶	maintained in a certified manner ²		<u>certified</u> manner ³		4 * / I	
					General Compliance	Performance Testing	General Compliance	Performance Testing	Records Requirements	(40 CFR part 60)
<250 HP	Commenced construction after 6/12/2006 and manufactured on or after 7/1/2008	≤25 HP	60.4231(a) 60.4233(a)	60.4236(a), (d)	60.4243(a)(1) If using AFRC: 60.4243(g) 40 CFR part 1068, subparts A-D.	None	60.4243(a)(2)(i) If using AFRC: 60.4243(g)	None	60.4245(a) 60.4245(a), (d)	60.4246 Table 3
		>25 HP Gasoline	60.4231(b) 60.4233(b)				If using AFRC: 60.4243(g) <100 HP: 60.4243(a)(2)(i) 100 < HP: 60.4243(a)(2)(ii)	<100 HP: None 100≤HP: 60.4243(a)(2)(ii) ⁵ 60.4244		
		25 <hp<100 (except</hp<100 	60.4233(d) ⁴	60.4236(a)	If using AFRC: 60.4243(g) Certified: 60.4243(b)(1) Non-certified: 60.4243(b)(2)	<u>Certified</u> : None <u>Non-Certified</u> : 60.4243(b)(2)(i) ⁵ , 60.4244	60.4243(a)(2)(i) If using AFRC: 60.4243(g)	All: 60.4244 Certified: ≥100 HP: $60.4243(a)(2)(ii)$ Non-Certified: $60.4243(b)(2)(i)^5$		
		100≤HP (except gasoline)	60.4233(e) ⁵ Table 1				60.4243(a)(2)(ii) If using AFRC: 60.4243(g)	All Engines: 60.4244 Certified: 60.4243(a)(2)(ii) Non-Certified: 60.4243(b)(2)(i) ⁵		
Modified/ Reconstruc ted	after 6/12/2006	≤25 HP	60.4233(f)(1)	None	If using AFRC: 60.4243(g) 60.4243(i)				60.4245(a)	
		>25 HP Gasoline	60.4233(f)(2)						60.4245(a), (d)	
		>25 HP natural gas and lean burn LPG	60.4233(f)(4)							
engine under If you operat	the appropriate non- te and maintain the o	road engine pro- certified engine	visions, are not real	quired to meet any o	other provisions under anufacturer's emission	this rule with regard to n-related instructions, ye	t have been properly certified as ro such engines. ou are operating in a certified mass, your engine will be considered	nner.	ould be applicable	to such

Compliance Requirements

Engines being operated and maintained in a non- Notification,

⁴Owners and operators of ICE with a maximum engine power >19 KW (25 HP) and <75 KW (100 HP) manufactured prior to January 1, 2011, that were certified to the standards in Table 1 to this rule applicable to engines with a maximum engine power ≥100 HP and <500 HP, may optionally choose to meet those standards.

If you purchase a non-certified engine or you do not operate and maintain your certified engine and control device according to the manufacturer's emission-related instructions, you are required to perform initial

performance testing as indicated in this section, but you are not required to conduct subsequent performance testing unless the engine is rebuilt or undergoes major repair or maintenance. A rebuilt ICE means an engine that has been rebuilt as that term is defined in 40 CFR 94.11(a).

The requirements of this section do not apply to ICE that have been modified or reconstructed, and they do not apply to engines that were removed from one existing location and reinstalled at a new location.



Date

Where do I send notifications and reports?



EPA REGION 1:

US Environmental Protection Agency
5 Post Office Square, Suite 100, Mail code: OES04-2
Boston, MA 02109-3912

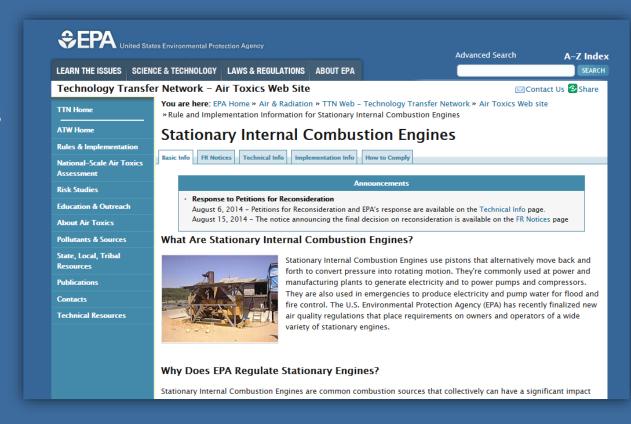
Attention: Air Clerk



Visit the EPA RICE Compliance Page

www.epa.gov/ttn/atw/icengines

- Fact sheets
- Regulations
- Example notifications
- Announcements
- Q & A documents
- Testing advice
- Recorded webinars
- ...and more!





Take Aways

Engine Type:

•An new or reconstructed non-emergency spark ignition 4-stroke lean burn engine at a major source with a site rating of less than 250 horsepower

Compliance Date:

Upon startup

Compliance Requirements:

•Comply with all SI NSPS requirements, if applicable

