











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



40 CFR 63 Subpart ZZZZ Area Source New Non-Emergency Spark Ignition 2-Stroke Lean Burn Engine ≤500 Horsepower



Compliance Requirements

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



Photo credit: EPA



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
 - •500 HP manufactured on/after January 1, 2008
 - •<500 HP manufactured on/after July 1, 2008</p>

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)



Photo credit: FPA

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 fuel that meets the sulfur limit: cap of 80 ppm/gal



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 performance 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
- •Initial notification for non-certified engines with HP=500
- Notification of Intent to Conduct Performance Testing 30 days prior to test
- •Results of performance testing within 60 days of test



Engine Certification

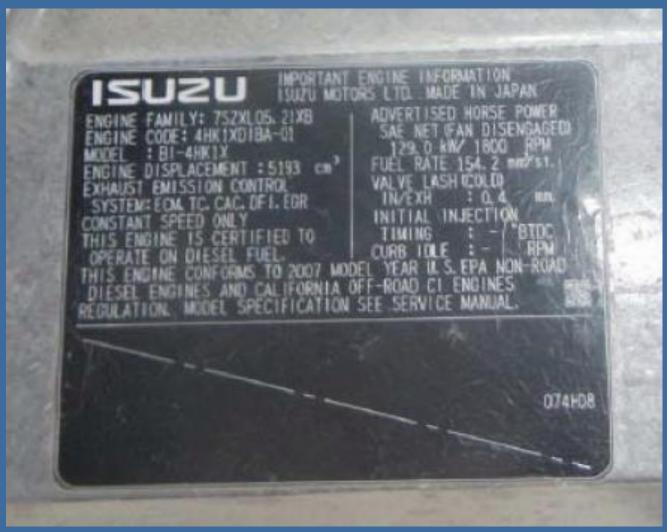




Photo credit: EPA

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 4.13m

Byron J. Burker, Acting Division Director Compliance Division Issue Date: 10/26/2011 Revision Date: N/A

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 void 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.

NE SI	Date				Compliance Requirements				Notification,	C
2SLB	Constructed/	Size/Engine	Emission	Importing/ Installing		ted and maintained	l Engines being operated a	Engines being operated and maintained in a non-		General Provisions
	Reconstructed	Type/Fuel		Requirements	in a certified	1	cerunea	<u>d</u> manner ³	Reports, and Records	(40 CFR
Categor y	/ Manufactured			6	General Compliance	Performance Testing	General Compliance	Performance Testing	Requirements	1
		≤25 HP	60.4231(a) 60.4233(a)		60.4243(a)(1) If using AFRC: 60.4243(g) 40 CFR part 1068, subparts A-D.		60.4243(a)(2)(i) If using AFRC: 60.4243(g)	None	60.4245(a)	
<500 HP	Commenced construction after 6/12/2006 and manufactured on or after 7/1/2008	25 <hp<500 Gasoline</hp<500 	60.4231(b) 60.4233(b)	60.4236(a),(d)		None	If using AFRC: 60.4243(g) ≤ 100 HP: 60.4243(a)(2)(i) 100≤HP : 60.4243(a)(2)(ii)	All Engines: 60.4244 <100 HP: None required 100≤HP: 60.4243(a)(2)(ii) ⁵		60.4246 Table 3
		25 <hp<100 (except gasoline)</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)	Certified: No Requirements Non-Certified: 60.4243(b)(2)(i) ⁵ , 60.4244	60.4243(a)(2)(i) If using AFRC: 60.4243(g)	All Engines: 60.4244 Certified: ≥100 HP: 60.4243(a)(2)(ii) Non-Certified: $60.4243(b)(2)(i)^5$	60.4245(a),(d)	
		100≤HP<500 (except gasoline)	60.4233(e) ⁵) Table 1				60.4243(a)(2)(ii) If using AFRC: 60.4243(g)	All Engines: 60.4244 <u>Certified</u> : 60.4243(a)(2)(ii) <u>Non-Certified</u> : 60.4243(b)(2)(i) ⁵		
500 HP	Commenced construction after 6/12/2006 and manufactured on or after 1/1/2008	5 500 HP	60.4233(e)	60.4236(b)	60.4243(a)(1) If using AFRC: 60.4243(g) 40 CFR part 1068, subparts A-D.	None	60.4243(a)(2)(iii) If using AFRC: 60.4243(g)	60.4243(a)(2)(iii) ⁵ 60.4244	All Engines: 60.4245(a),(d) Non-certified: 60.4245(c)	
1.5 . 1		≤25 HP	60.4233(f)(1)						60.4245(a)	
Modified /	Modified or	>25 HP Gasoline	25 HP Gasoline 60.4233(f)(2)		If using AFRC: 60.4243(g)					
Reconstructed	reconstructed	>25 HP natural		None	60.4243(i)				60.4245(a),(d)	
be applical III you open III you do III you do IIII You do IIII You had III you pur perform in maintenan	able to such engiperate and mainta onot operate and n a maximum engaximum engine purchase a non-ceinitial performance. A rebuilt IC	gine under the appr tain the certified en d maintain the cert ngine power >19 K power ≥100 HP an ertified engine or y nce testing as indic CE means an engin	propriate nonro engine and con rtified engine a KW (25 HP) and and <500 HP, you do not ope cated in this se tine that has bee	oad engine provi ntrol device acco and control devi and <75 KW (10 may optionally perate and mainta section, but you a een rebuilt as that	visions, are not required to cording to the manufacturation according to manufactured properties to manufactured properties to meet those station your certified engines are not required to conduct term is defined in 40 C	to meet any other prourer's emission-relate acturer's emission-relate acturer's emission-relaterior to January 1, 20 tandards. The and control device duct subsequent performance (CFR 94.11(a).	provisions under this rule with ted instructions, you are oper elated instructions, your engol1, that were certified to the eaccording to the manufacture formance testing unless the eaccording to the manufacture.	en properly certified as meeting ith regard to such engines. erating in a certified manner. It is gine will be considered a norme standards in Table 1 to this turer's emission-related instruction in the standards in the control of	r. on-certified engine. nis rule applicable t ructions, you are re oes major repair or	e. to engines required to r

Where do I send notifications and reports?



EPA REGION 1:

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

Attention: Air Clerk

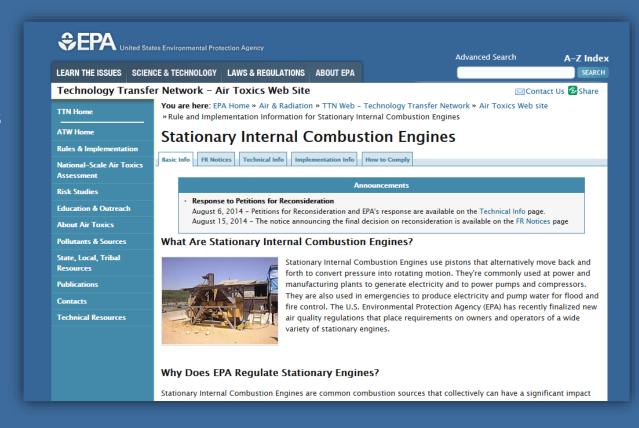
Boston, MA 02109-3912



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:

•A new or reconstructed non-emergency spark ignition 2-stroke lean burn engine at an area source with a site rating of less than or equal to 500 horsepower

Compliance Date:

Upon startup

Compliance Requirements:

•Comply with all SI NSPS requirements, if applicable

