

Section III. Emissions Unit(s) and Conditions.

Subsection G. This section addresses the following emissions unit.

<u>E.U. ID No.</u>	<u>Brief Description</u>
012	Two new natural gas-fired Generac Model No. SG300 emergency generator reciprocating engines FGTC GEN04 (454 bhp) and FGTC GEN05 (454 bhp)

This emission unit includes two new natural gas fired Generac Model No. SG300 emergency generators that are each powered by a 454 bhp reciprocating internal combustion engine. The new engines are 4-stroke, lean burn, spark-ignition engines that were ordered on July 21, 2010 (definition of commence construction according to NSPS subpart JJJJ) and manufactured after January 1, 2009. The engines coupled with the generators will utilize a non-selective catalytic reduction or 3-way catalyst as its primary control technology.

The following specific conditions apply to the emissions unit listed above:

Essential Potential to Emit (PTE) Parameters

G.1. Methods of Operation - (i.e., Fuels). The 454 hp emergency generator engines shall be fired exclusively with pipeline natural gas, with the exception of using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations, but records must be kept of such use. [40 CFR 60.4243(e), Rule 62-213.440, F.A.C.; and Permit 1130037-013-AC]

G.2. Methods of Operation.

- a. The owner or operator of the emergency generator engines shall operate and maintain the engines and control devices according to the manufacturer's emission-related written instructions. [40 CFR 60.4243(a)(1)]
- a. If the certified engine and control device are not operated and maintained according to the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine, and owners or operators of the noncertified engine must to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions and must conduct an initial performance test within 1 year of engine startup to demonstrate compliance, but a subsequent test is not required unless the engine is rebuilt or undergoes major repair or maintenance. [40 CFR 60.4243(a)(2)(ii) and (f)]

G.3. Hours of Operation. Emergency stationary ICE may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. There is no time limit on the use of emergency stationary ICE in emergency situations. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. Emergency stationary ICE may operate up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. For owners and operators of emergency engines, any operation other than

emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as permitted in this section, is prohibited. [40 CFR 60.4243(d) and Rule 62-210.200(PTE), F.A.C. and Permit 1130037-013-AC]

Emission Limitations and Standards

G.4. Emissions Standards: The 454 emergency generator engine shall not exceed the following standards for carbon monoxide (CO), nitrogen oxides (NO_x) and volatile organic compounds (VOC).

Engine type and fuel	Maximum engine power	Manufacture date	Emission standards ^a					
			g/HP-hr			ppmvd at 15% O ₂		
			NO _x	CO	VOC ^d	NO _x	CO	VOC ^d
Emergency	HP≥130	1/1/2009	2.0	4.0	1.0	160	540	86

^aOwners and operators of stationary non-certified SI engines may choose to comply with the emission standards in units of either g/HP-hr or ppmvd at 15 percent O₂. A certified engine is not required to conduct a performance test.

^dWhen calculating emissions of volatile organic compounds, emissions of formaldehyde should not be included.

[40 CFR 60.4243(a)(1) and Table 1 to NSPS subpart JJJJ]

Testing Requirements

G.5. No performance testing of the emergency generator engines is required if the engines are certified by the manufacturer and the engines and control devices are operated and maintained according to the manufacturer's emission-related written instructions. [40 CFR 60.4243(a)(1)].

Recordkeeping and Reporting Requirements

- G.6.** The following records must be kept for the two 454 hp emergency generator engines:
- (a) All notifications submitted to comply with this subpart and all documentation supporting any notification.
 - (b) Keep a maintenance plan and records of maintenance conducted on the engine.
 - (c) 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 90, 1048, 1054, and 1060, as applicable.

[40 CFR 60.4245(a) (1), (2) & (3)]

Applicable Federal Regulations

G.7. NSPS Subpart JJJJ: The emergency generator engines are subject to applicable requirements in NSPS Subparts A (General Provisions) and JJJJ (Stationary Spark Internal Combustion Engines) of 40 CFR 60. The engines are certified engines that were manufactured after January 1, 2009 and must comply with the emission standards in Table 1 to 40 CFR 60 subpart JJJJ for emergency engines greater than 130 hp. [Rules 62-210.300(a)(35)g., and 62-204.800(8)(b)80, F.A.C.]

G.8. NESHAP Subpart ZZZZ: The emergency generator engines are subject to applicable requirements in NESHAP Subparts A and ZZZZ (Reciprocating Internal Combustion Engines).

Florida Gas Transmission Company
Santa Rosa Compressor Station No. 12

FINAL Permit No.: 1130037-014-AV
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Pursuant to 40 CFR 63.6590(c)6 for stationary reciprocating internal combustion engines (RICE) also subject to regulations under 40 CFR Part 60, a 4-stroke lean burn stationary RICE with a site rating of less than or equal to 500 bhp must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart JJJJ for spark ignition engines. No further requirements apply for such engines under 40 CFR 63 Subpart ZZZZ. [Rules 62-210.300(a)(35)h., and 62-204.800(10)(b)82, F.A.C.]