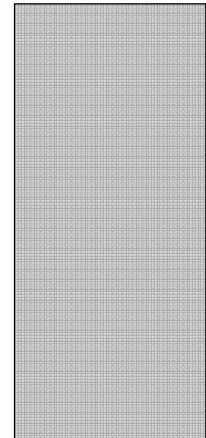


# AIR PERMITTING

## GENERAL PERMIT UPDATES

NEW JERSEY  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF STATIONARY SOURCES



# NJDEP AIR PERMIT APPLICABILITY FOR EMERGENCY GENERATORS

- Commercial fuel burning equipment that has a maximum rated heat input of 1,000,000 BTU per hour or greater to the burning chamber, **including emergency generators.**
- Any stationary reciprocating engine with a maximum rated power output of 37 kW or greater, used for generating electricity, **not including emergency generators.**

# WHEN A GENERATOR IS CONSIDERED AN EMERGENCY GENERATOR

- **Emergency generators may be operated in three limited cases:**
  1. During the performance of normal testing and maintenance procedures, as recommended in writing by the manufacturer and/or as required in writing by a Federal or State law or regulation
  2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency.
  3. When there is a voltage reduction issued by PJM and posted on the PJM internet website ([www.pjm.com](http://www.pjm.com)) under the “emergency procedures” menu.
- **Operation of the equipment that does not meet one of these three cases disqualifies the equipment from meeting the definition of an emergency generator.**

Note: The use of a generator for demand response is not allowed under a general permit. The facility would have to obtain a regular air permit Preconstruction or Operating permit. The engine would be required to comply with all applicable regulations including NOx RACT, State of The Art and be subject to a risk screening analysis. Compliance with the aforementioned regulations and emissions standards typically results in the installation of add-on air pollution control.

# AIR PERMIT APPLICABILITY DETERMINATION FOR EMERGENCY GENERATORS

- <http://www.nj.gov/dep/enforcement/air-resources.html>

## **Air Compliance and Enforcement Resources Page**

Below are links to useful, forms, documents, and training presentations of use to individuals and companies dealing with Air Compliance and Enforcement.

- Statutory and regulatory authority:
  - The Air Pollution Control Act: [N.J.S.A. 26:2C-1 et seq.](#) and [N.J.A.C. 7:27-1.1 et seq.](#)
- [Compliance Advisories](#)
- Odor complaints - to report odor complaints or any environmental incident impacting New Jersey, call the DEP 24 hour toll-free environmental hotline, @ 1-877-927-6337.
- Construction, Repair and Maintenance (CRM) - [CRM Initial Notification](#), [CRM Final Notification](#), [Permit Applicability for Equipment and Source Operations Operated During Construction, Repair and Maintenance Events Memorandum](#)
- [Complaint Investigation Guidelines](#)
- Fact Sheets – [Particulate Dust](#), [Odor](#), [Idling Vehicles](#)
- Certification forms and instructions – [Annual Compliance](#), [Semi-Annual Compliance](#), [General Instructions](#)
- DEP Online Electronic Submittal Forms:
  - [Instructions For Completing The Periodic Compliance Certification Spreadsheet \(pdf\)](#)
  - [Instructions For Completing The Periodic Compliance Certification Spreadsheet \(doc\)](#)
  - [Instructions For Completing The Periodic Compliance Certification Spreadsheet \(html\)](#)
- [Checklists – Generic Air Inspection](#)
- [Affirmative defense guidance to facilities](#)
- [Dry Cleaner Reimbursement Grant Program](#)
- [Powerpoint Presentations from Previous ACEAcademy Seminars](#)
- [Air Permit Termination Request Form for Non-Title V Permit](#)
- [Emission Statement \(Subchapter 21\) Non-applicability Notification](#)
- [Air Permit Applicability Determination For Emergency Generators Guidance Document](#)
  - [Attachment A](#)
  - [Attachment B](#)
  - [Attachment C](#)
  - [Attachment D](#)



# PERMITTING OPTIONS FOR MAJOR SOURCES

**Operating Permit – NJAC 7:27-22 Major Facilities** Regulated under Title V of the Clean Air Act

Note: The major source threshold for Potential to Emit (PTE) of 25 tons/year NO<sub>x</sub> is what typically causes a combustion source to trigger Major Source applicability

## **Two Permitting Procedures for Major Facilities**

- General Operating Permits (GOPs)
- Case- by-Case (Title V Permit)

# PERMITTING OPTIONS FOR MINOR SOURCES

**Preconstruction Permit** – NJAC 7:27-8 **Minor Facilities**, State Issued Permit

## **Two Permitting Procedures for Minor Facilities**

- General Permits (GPs)
  - On-line Registration
  - Immediate authorization to construct
- Case- by-Case
  - Preconstruction Permits (PCPs) – Electronic Application (Radius) for Minor Sources
  - 30-60 day average processing time

## PERMIT OPTION FOR EMERGENCY GENERATORS BURNING DISTILLATE FUELS\*

GP-005A for minor facilities or  
GOP-003 for major facilities

### Applicability

- **GP-005A** for a **single or multiple** emergency generator burning distillate fuel(s) with a maximum rated heat input to the burning chamber of less than 100 million BTU per hour (MMBTU/hr).
- **GOP-003** for a **single** emergency generator, 2007 model year or later, having a maximum rated heat input less than or equal to 30 million BTU per hour (MMBTU/hr)

\*Distillate fuels means Diesel, Kerosene and no.2 fuel oil

# PERMIT OPTION FOR EMERGENCY GENERATORS BURNING GASEOUS FUELS\*

GP-005B for minor facilities or  
GOP-004 for major facilities

## Applicability

- **GP-005B** for a **single or multiple** emergency generator burning gaseous fuel(s) with a maximum rated heat input to the burning chamber of less than 70 million BTU per hour (MMBTU/hr).
- **GOP-004** for a **single** emergency generator

\*Gaseous fuels means Natural Gas and/or Propane



## GP-005A AND GOP-003 EMERGENCY GENERATOR(S) BURNING DISTILLATE FUELS

- Federal Requirements:
  - NSPS:
    - All model year 2007 and later emergency generators must be a certified engine
    - The maximum sulfur content for the Distillate fuel should not exceed 15 ppm
  - MACT for existing engines for minor facilities:
    - Pollution prevention measures that involve inspections and/or change of oil to optimize engine efficiency

## GP-005B AND GOP-004 EMERGENCY GENERATOR(S) BURNING GASEOUS FUELS

- Federal Requirements:
  - NSPS is applicable:
    - If construction (the date the engine is ordered by the owner or operator) commenced after June 12, 2006 **AND** it was manufactured on or after January 1, 2009
    - Emergency generators must be certified by EPA conformity
  - MACT for existing engines:
    - Pollution prevention measures that involve inspections and/or change of oil to optimize engine efficiency

## WHAT “CERTIFIED” MEANS?

**“Certified Stationary Internal Combustion Engine”** means an engine that belongs to an engine family that has a certificate of conformity that complies with the emission standards and requirements in 40 CFR part 60.4230, et. seq., 40 CFR part 90, 40 CFR Part 1048, or 40 CFR part 1054, as appropriate.

**“Certificate of Conformity”** means a certificate issued by EPA to the manufacturer of the stationary internal combustion engine that the engine is certified and conforms to the emission standards and requirements in 40 CFR part 90, 40 CFR part 1048, or 40 CFR part 1054, as applicable.



**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: <b>Generac Power Systems, Inc.</b> (U.S. Manufacturer or Importer)  Certificate Number: <b>CGNXB06.82C3-026</b>	<u>Effective Date:</u> <b>10/31/2011</b>  <u>Expiration Date:</u> <b>12/31/2012</b>	 Byron J. Bunker, Acting Division Director Compliance Division	<u>Issue Date:</u> <b>10/31/2011</b>  <u>Revision Date:</u> <b>N/A</b>
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Manufacturer: <b>Generac Power Systems, Inc.</b> Engine Family: <b>CGNXB06.82C3</b> ← Certificate Number: <b>CGNXB06.82C3-026</b> Certification Type: <b>Stationary (Part 60)</b> Fuel : <b>Natural Gas (CNG/LNG)</b> Emission Standards : <b>NOx ( g/kW-hr ) : 2.7</b> <b>VOC ( g/kW-hr ) : 1.3</b> <b>CO ( g/kW-hr ) : 5.4</b> Emergency Use Only : <b>Y</b>	
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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 60 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.

**Note: Engines that are not certified must come case by case application, and pay the appropriate fees applications and NSPS review.**

# GENERAC®

EMISSIONS CONTROL INFORMATION  
GENERAC POWER SYSTEMS, INC.

→ ENGINE FAMILY: CGNXB06.82C3  
EXHAUST ECS: TWC-ECM-H025

PRODUCTION DATE: 07/16/12

THIS ENGINE COMPLIES WITH U.S. EPA REGULATIONS FOR 2012 STATIONARY SI ENGINES AND CAN ONLY BE USED IN STATIONARY EMERGENCY APPLICATIONS. THIS ENGINE IS CERTIFIED TO OPERATE ON PIPELINE QUALITY NG, TO BE USED IN CONSTANT-SPEED APPLICATIONS ONLY, & EMISSIONS STANDARDS OF 1.3G/KW-HR VOC, 5.4G/KW-HR CO, 2.7G/KW-HR NOX, AQMD ENG MODEL: 6.8GLPNGD-130

DECLARED POWER: 19.4HP@3000 RPM

REFER TO THE OWNERS MANUAL AND INSTALLATION GUIDE FOR MAINTENANCE, LUBRICATION, INSTALLATION, AND PURCHASE/OWNER COMPLIANCE REQUIREMENTS. NON-COMPLIANCE MAY BE A VIOLATION OF FEDERAL LAW SUBJECT TO CIVIL PENALTY.

# [HTTP://WWW.EPA.GOV/OTAQ/CERTDATA.HTM#LSI](http://www.epa.gov/otaq/certdata.htm#lsi)

## Large Spark-Ignition Engines Certification Data Files

**Engine Family and Models Information, and Certification Test Data. Early years are a Zip file of Excel files. Files in later years are not compressed. The latest files contain Greenhouse Gas data. By Model Year (MY).**

<b>2004 &amp; 2005 MYs (Zip)</b> (30K, February 2006)	<b>2006 &amp; 2007 MYs (Zip)</b> (30K, February 2007)	<b>2008 &amp; 2009 MYs (Zip)</b> (10K, April 2009)	<b>2010 MY (XLS)</b> (50K, August 2012)	<b>2011 MY (XLS)</b> (40K, August 2012)	
<b>2011 MY (XLS)</b> GHG Data Added (60K, July 2012)	<b>2012 MY (XLS)</b> GHG Data Added (110K, March 2013)	<b>2013 MY (XLS)</b> GHG Data Added (80K, March 2014)	<b>2014 MY (XLS)</b> GHG Data Added (170K, November 2014)	<b>2015 MY (XLS)</b> GHG Data Added (207K, July 2015)	<b>2016 MY (XLS)</b> GHG Data Added (93.5K, July 2015)

182	Generac Power Systems, Inc.	CGNXB04.62NN	Standard
183	Generac Power Systems, Inc.	CGNXB05.42L1	Standard
184	Generac Power Systems, Inc.	CGNXB05.42L2	Standard
185	Generac Power Systems, Inc.	CGNXB05.42L2	Standard
186	Generac Power Systems, Inc.	CGNXB05.42NL	Standard
187	Generac Power Systems, Inc.	CGNXB05.42NN	Standard
188	Generac Power Systems, Inc.	CGNXB06.82C1	Standard
189	Generac Power Systems, Inc.	CGNXB06.82C2	Standard
190	Generac Power Systems, Inc.	CGNXB06.82C3	Standard
191	Generac Power Systems, Inc.	CGNXB06.82C4	Standard
192	Generac Power Systems, Inc.	CGNXB06.82L1	Standard
193	Generac Power Systems, Inc.	CGNXB06.82L2	Standard
194	Generac Power Systems, Inc.	CGNXB06.82L3	Standard
195	Generac Power Systems, Inc.	CGNXB06.82L4	Standard
196	Generac Power Systems, Inc.	CGNXB06.82L5	Standard
197	Generac Power Systems, Inc.	CGNXB06.82L6	Standard
198	Generac Power Systems, Inc.	CGNXB06.82NL	Standard
199	Generac Power Systems, Inc.	CGNXB06.82NN	Standard



# GP-21 CHP TURBINE $\leq$ 65 MMBTU/HR

## Applicability

- **GP-021** is for a **single or multiple** Combined Heat and Power (CHP) combustion turbine(s), with or without duct burner(s), having a maximum or combined total heat input rate less than or equal to 65 million BTU per hour (MMBtu/hr) based on the higher heating value (HHV) of the fuel;

**Note:** This General Permit can only be used for CHP combustion turbine unit(s) with total designed efficiency greater than or equal to 65 percent; and burning the following fuels: natural gas or propane as gaseous fuels and kerosene or distillate oil as liquid fuels .

# GP-022 CHP SI RECIPROCATING ENGINE <= 65 MMBTU/HR

## Applicability

- **GP-022** is for a **single or multiple** Combined Heat and Power (CHP) spark ignition reciprocating engine(s), with or without duct burner(s), having a maximum or combined total heat input rate less than or equal to 65 million BTU per hour (MMBtu/hr) based on the higher heating value (HHV) of the fuel

**Note:** This General Permit can only be used for CHP SI engine unit(s) with a maximum total designed efficiency greater than or equal to 65 percent; and combusting only natural gas or propane



# GENERAL PERMIT UPDATES

- GP-017A Each Less Than 5 MMBTU/hr

## Applicability

- A single or multiple boiler(s) and/or heater(s) with a maximum rated heat input to the burning chamber of less than 5 million BTU/hr burning only the following commercial fuels: Natural Gas, No. 2 Fuel Oil, Propane and/or Kerosene.

# GENERAL PERMIT UPDATES

- GP-018A Each greater than or equal 5 MMBTU/hr and less than 10 MMBTU/hr

## Applicability

- A single or multiple boiler(s) and/or heater(s) with a maximum rated heat input to the burning chamber of less than 10 million BTU/hr burning only the following commercial fuels: Natural Gas, No. 2 Fuel Oil, Propane and/or Kerosene.

# GENERAL PERMIT UPDATES

- GP-016A Small Emitter General Air Permit (SEGAP)

## Applicability

The following source category is eligible for this General Permit:

- Equipment in which the combined weight of all raw materials used exceeds 50 pounds in any one hour, in accordance with N.J.A.C. 7:27-8.2(c)19. In determining the weight of the raw materials used, the weight of the following shall be excluded, in accordance with N.J.A.C. 7:27-8.2(c)19ii.
  - Air;
  - Water;
  - Containers, as long as the container is not consumed as part of the operation; and
  - Paper, metal or plastic that is twisted, bent or folded in the operation, as long as it does not cause visible emissions.

## WHAT AIR PERMIT IS APPLICABLE?

Sources	Permit
EG burning Natural Gas and/or Propane	GP-005B or GOP-004
EG burning Diesel	GP-005A or GOP-003
EG burning Dual fuel (Natural gas and/or diesel)	PCP or Operating Permit case by case review
EG burning Tri fuel (Natural gas, Propane and/or Gasoline)	PCP or Operating Permit case by case review

Note: The use of a generator for demand response is not allowed under a general permit. The facility would have to obtain a regular air permit Preconstruction or Operating permit. The engine would be required to comply with all applicable regulations including NOx RACT, State of The Art and be subject to a risk screening analysis. Compliance with the aforementioned regulations and emissions standards typically results in the installation of add-on air pollution control.

# HOW TO REGISTER?

- General Permits:
  - Online Registration and online submittal
  - Fee: \$820 (multiple pieces of equipment) (other associated fees may apply)
- PCP case by Case application:
  - Radius Program – online submittal or by mail
  - Fee: \$2,527 and \$590.00 (per each additional piece of equipment)

# REQUIREMENTS FOR ONLINE BUSINESS PORTAL

- <http://www.state.nj.us/dep/aqpp> (GPs and Radius procedures)
- Obtain Facility ID / Program Interest Number (Applications and Forms – AIMS 099)
- Create a "My New Jersey Account" at:  
<http://www.njdeponline.com/> (then you will be able to login and create your GP)
- Information or documents required:
  - Facility specific information
  - Details on Source Operations
  - Authorization to Certify registration (Individual With Direct Knowledge & Responsible Official)
  - Credit card or bank routing number (e-check) to complete the process

# TO RENEW AN EXISTING GENERAL PERMIT

<http://www.njdeponline.com/>

## Welcome to New Jersey Department of Environmental Protection's Online Business Portal

The NJDEP Online system can be accessed via the myNewJersey Portal at <http://www.nj.gov> or accessed directly from this page by selecting 'Log in to NJDEP Online'. You will be required to have a myNewJersey Portal account in order to access NJDEP's online services. If you do not have a myNewJersey Portal account you will be able to create one during the registration process. You will also be able to use this same myNewJersey account to access other services provided by other New Jersey Departments.

**NJDEP Online offers 2 different types of services, Non-registered and Registered:**

- 1 Non-registered Services** do not require NJDEP Online or myNewJersey account creation and can be accessed without logging in:
  - **Pay a Paper Invoice** (Certain invoice types are not available for online payment)
  - **Documents and Forms**
  - **Pay for a License**
  - **Pesticide Product Registration**
  - **Saltwater Angler Registration**
  - **Request a Waiver**
  - **Vehicle Registration Renewal** (Recommended renewal method for companies with 10 or fewer vehicles)
- 2 Registered Services** require users to create a NJDEP Online and myNewJersey account:
  - **View Registered Services** (You must be logged in to use these services)

**What's New**

### Already a Registered User?

#### [Login to NJDEP Online](#)

Some NJDEP Online services have associated fees. A Visa, MasterCard, Discover, American Express credit card, or a valid checking account is required for online payment of the required fees.



#### [Forgot your password?](#)

### New User?

Please read the following instructions carefully before continuing:  
**[Registration Instructions](#)**  
(PDF - 626KB)

#### [Request Access to NJDEP Online](#)

For use with Microsoft Internet Explorer 9.0, Microsoft Internet Explorer 10.0 in Compatibility Mode, or Mozilla Firefox 26 or later.

You will need the invoice number.  
Otherwise you can submit your payment by mail to Treasurer

# HINT, HINT, HINT

- Invoice numbers change from initial to second notice to third notice. NJEMS Bill ID Numbers **DO NOT!**
- Both are on the Invoice
- Track the NJEMS BILL ID Numbers in addition to the invoice number so you **DON'T PAY TWICE!**



## IF YOUR GENERAL PERMIT CANNOT BE RENEWED

- Existing GPs that have been replaced by new General permits can not be renewed. For example existing GP-005. A new registration should be submitted.

# CONTACT INFORMATION

Name	Phone number	email
General Permit HELP LINE	609-633-2829	-----
RADIUS HELP LINE	609-292-6716	-----
Mayra Reyes for General permits	609-984-6072	mayra.reyes@dep.nj.gov
Edivia Molina GP Helpline	609-633-2931	edivia.molina@dep.nj.gov
Northern REO	973-656-4444	
Central REO	609-292-3187	
Southern REO	856-614-3601	

# QUESTIONS

