



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR ENFORCEMENT

Mail Code 401-04B

P.O. Box 420

401 E State Street, 4th Floor East

Trenton, NJ 08625-0420

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

BOB MARTIN
Commissioner

Air Permit Applicability Determination For Emergency Generators Guidance Document

1. What is the Purpose of this Guidance Document?

Assist an emergency generator (EG) owner/operator to determine if the EG requires an air permit according to New Jersey Administrative Code (N.J.A.C.)7:27-8.1 et seq.

[<http://www.state.nj.us/dep/aqm/Sub8v2015.pdf>]. The 21st amendment to N.J.A.C. 7:27-8.1 et seq was made operative on February 27, 2015.

2. What does the Regulation (N.J.A.C. 7:27-8.1 et seq) say?

According to N.J.A.C. 7:27-8.2(c)1, 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, is a significant source and therefore requires a preconstruction permit and an operating certificate (Air Permit).

3. When do you need an Air Permit?

You will need to obtain an NJDEP air permit if the maximum (100% load or power rating) fuel consumption in any one (1) hour is greater than the values listed below for each fuel type. The maximum fuel consumption of the EG can typically be found on an engine name plate, specification sheet or obtained directly from the manufacture or sales representative.

Natural Gas – greater than 980 ft³ /hour (based on heat value of 1,020 Btu/ft³)

Propane (LP) – greater than 397 ft³ /hour (based on heat value of 2,516 Btu/ft³)

#2 Fuel Oil – greater than 7.04 gallons /hour (based on heat value of 142,000 Btu/gal)

Examples

Attachment A

For MTU Onsite Energy (Gas Generator Set – MTU 10V0068 GS125), the fuel consumption rate for natural gas at 100% load (power rating) is 1,463 ft³/hour (page 3 of 4). This fuel consumption rate is greater than the value listed in item #3 above (natural gas - 980 ft³ /hour). Therefore, this EG requires an air permit.

Attachment B

For Blue Star Power System (PS130-01; 130 kWe), the fuel consumption rate for natural gas at 100% power rating is 1,703 ft³ /hour (page 2 of 4). This fuel consumption rate is greater than the value listed in item #3 above (natural gas - 980 ft³ /hour). Therefore, this EG requires an air permit.

Attachment C

For GENERAC (SG300 – 12.9L - 300 kW), the fuel consumption rate for natural gas at 100% load is 4,621 ft³/hour (page 5 of 10). This fuel consumption rate is greater than the value listed in item #3 above (natural gas - 980 ft³ /hour). Therefore, this EG requires an air permit.

Attachment D

For Cummins Power Generation (60 Hz Spark Ignited Generator Set), the fuel consumption rate for propane at 100% (full) load is 407 ft³/hour (page 3 of 4). This fuel consumption rate is greater than the value listed in item #3 above (propane - 397 ft³ /hour). Therefore, this EG requires an air permit.

4. What do I need to do if an air permits required?

After conducting the above exercise and it is determined that you need an air permit, please click on this link, <http://www.nj.gov/dep/aqpp/gp.html> and follow the instructions to obtain an air permit.

Make sure to read the entire General Permit (GP) process before you proceed. If you have any questions, please call **General Permits Help Desk at (609) 633-2829.**

Who should I contact with questions?

NJDEP Air Quality Permitting	609-292-0834
Air Compliance and Enforcement - Northern Field Office (Bergen, Essex, Hudson, Hunterdon, Morris, Passaic, Somerset, Sussex, Warren, and Union Counties)	973-656-4444
Air Compliance and Enforcement – Central Field Office (Burlington, Mercer, Middlesex, Monmouth, and Ocean Counties)	609-292-3187
Air Compliance and Enforcement – Southern Field Office (Atlantic, Camden, Cape May, Cumberland, Gloucester, and Salem Counties)	856-614-3601