

31 August 2007

Mr. Andrew Hunt
American Power Conversion Corporation
132 Fairgrounds Road
West Kingston, RI 02892

Dear Mr. Hunt:

The Department of Environmental Management, Office of Air Resources has reviewed and approved your application for the installation of fuel burning equipment at your facility located at 132 Fairgrounds Road, West Kingston, RI.

Enclosed is a minor source permit issued pursuant to our review of your application (Approval Nos. 2008-2010).

During the course of our review of your application, we determined that three 2000 kW engine-generator sets located at 132 Fairgrounds Road were installed in November 2005. American Power Conversion Corporation failed to obtain a preconstruction permit prior to the installation of this equipment as required by RI Air Pollution Control Regulation No. 9.

The issuance of this minor source permit will now bring American Power Conversion Corporation into compliance with the requirement to obtain a preconstruction permit. The issuance of this permit does not limit or otherwise preclude the RI DEM from pursuing enforcement actions to address the failure to obtain a preconstruction permit prior to the installation of the equipment.

If there are any questions concerning this permit, please contact me at 222-2808, extension 7011.

Sincerely,

Douglas L. McVay
Associate Supervising Engineer
Office of Air Resources

cc: South Kingston Building Official
Steve Piper-M.J. Bradley & Associates

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR RESOURCES

MINOR SOURCE PERMIT

American Power Conversion Corporation

APPROVAL NOs. 2008-2010

Pursuant to the provisions of Air Pollution Control Regulation No. 9, this minor source permit is issued to:

American Power Conversion Corporation

For the following:

Installation of three (3) engine-generator sets, each a Caterpillar Model 3516B unit or

equivalent, to be installed on an as-needed basis. The generators are to be fired with fuel oil

containing 15 ppm sulfur, by weight, or less.

Located at: *132 Fairgrounds Road, West Kingston*

This permit shall be effective from the date of its issuance and shall remain in effect until revoked by or surrendered to the Department. This permit does not relieve *American Power Conversion Corporation* from compliance with applicable state and federal air pollution control rules and regulations. The design, construction and operation of this equipment shall be subject to the attached permit conditions and emission limitations.

**Stephen Majkut, Chief
Office of Air Resources**

Date of Issuance

**STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR RESOURCES**

Permit Conditions and Emission Limitations

AMERICAN POWER CONVERSION CORPORATION

APPROVAL NOs. 2008-2010

A. Emission Limitations

1. Each engine-generator set installed on or before 31 December 2008 shall comply with the emission standards in Table 1 to 40 CFR Part 60, Subpart III, "Standards of Performance for Stationary Compression Ignition Internal Combustion Engines".
2. Each engine-generator set installed after 31 December 2008 shall comply with the emission standards in 40 CFR Part 60, Subpart III – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, for 2007 model year engines.
3. Nitrogen Oxides (NO_x)

The emission rate of nitrogen oxides discharged to the atmosphere from each engine-generator set shall not exceed 59.66 lbs/hr.
4. Sulfur Dioxide (SO₂)
 - a. All diesel fuel burned in each engine-generator set shall contain no more than 15 ppm sulfur by weight.
 - b. The emission rate of sulfur dioxide discharged to the atmosphere from each engine-generator set shall not exceed 0.031 lbs/hr.
5. Visible emissions from each engine-generator set shall not exceed 10% opacity except for a period or periods aggregating no more than three minutes in any one-hour. This visible emission limitation shall not apply during startup of the engines. Engine startup shall be defined as the first ten minutes of firing following the initiation of firing.

B. Operating Requirements

1. The maximum firing rate for each engine-generator set shall not exceed 147.6 gallons per hour.

2. Each engine-generator set shall not operate more than 408 hours in any consecutive 12-month period.

C. Continuous Monitoring

1. Each engine-generator set shall be equipped with a non-resettable elapsed time meter to indicate, in cumulative hours, the elapsed engine operating time.

D. Fuel Oil Testing

1. Compliance with the diesel fuel sulfur limit may be determined based on a certification from the fuel supplier. Fuel supplier certifications shall include the following information:
 - a. The name of the fuel supplier;
 - b. The sulfur content of the fuel from which the shipment came or the shipment itself;
 - c. The location of the fuel when the sample was drawn for analysis to determine the sulfur content of the fuel, specifically including whether the fuel was sampled as delivered to American Power Conversion Corporation or whether the sample was drawn from fuel in storage at the fuel supplier's facility or another location;
 - d. The method used to determine the sulfur content of the fuel.
2. As an alternative to fuel supplier certification, the owner/operator may elect to sample the fuel prior to combustion. Sampling and analysis shall be conducted for the fuel in the initial tank(s) of fuel to be fired in the engine and after each new shipment of fuel is received. Samples shall be collected from the fuel tank immediately after the fuel tank is filled and before any fuel is combusted.
3. Each fuel supplier certification or each fuel oil analysis must demonstrate that the fuel oil contains 15 ppm sulfur by weight or less.

E. Record Keeping and Reporting

1. The owner/operator shall, on a monthly basis, no later than 5 days after the first of each month, determine and record the hours of operation and fuel use for each engine-generator set for the previous 12-month period.
2. The owner/operator shall notify the Office of Air Resources, in writing, whenever the hours of operation in any 12-month period exceed 408 hours for any engine-generator set.

3. The owner/operator shall notify the Office of Air Resources of any anticipated noncompliance with the terms of this permit or any other applicable air pollution control rules and regulations.
4. The owner/operator shall maintain copies of all fuel supplier certifications or fuel analyses and these copies shall be made accessible for review by the Office of Air Resources or its authorized representative and EPA. These records shall include a certified statement, signed by the owner/operator of the facility, that the records represent all of the fuel combusted at the facility.
5. The owner/operator shall notify the Office of Air Resources, in writing, each time a new engine/generator set is put into service no later than five days after such date. Such notification shall include:
 - a. The date of the actual start-up of the engine/generator set, and
 - b. The manufacturer, model no., serial number, model year, maximum engine output rating (HP), maximum generator output rating (kW), and maximum firing rate of the engine/generator set.
 - c. Emissions information for nitrogen oxides, carbon monoxide, particulate matter and total nonmethane hydrocarbons
 - d. A copy of the documentation from the manufacturer that the engine is certified to meet the requirements of condition A.1 (Tier 1 certification or better) or condition A.2 (Tier 2 or Tier 3 certification, as applicable).
6. The owner/operator shall notify the Office of Air Resources, in writing, of the date of removal of each engine/generator set no later than fifteen days after such date.
7. The owner/operator shall notify the Office of Air Resources in writing of any planned physical or operational change to any equipment that would:
 - a. Change the representation of the facility in the application.
 - b. Alter the applicability of any state or federal air pollution rules or regulations.
 - c. Result in the violation of any terms or conditions of this permit.
 - d. Qualify as a modification under APC Regulation No. 9.

Such notification shall include:

- Information describing the nature of the change.

- Information describing the effect of the change on the emission of any air contaminant.
- The scheduled completion date of the planned change.

Any such change shall be consistent with the appropriate regulation and have the prior approval of the Director.

8. The owner/operator shall notify the Office of Air Resources, in writing, of any noncompliance with the terms of this permit within 30 calendar days of becoming aware of such occurrence and supply the Director with the following information:
 - a. The name and location of the facility;
 - b. The subject source(s) that caused the noncompliance with the permit term;
 - c. The time and date of first observation of the incident of noncompliance;
 - d. The cause and expected duration of the incident of noncompliance;
 - e. The estimated rate of emissions (expressed in lbs/hr or lbs/day) during the incident and the operating data and calculations used in estimating the emission rate.
 - f. The proposed corrective actions and schedule to correct the conditions causing the incidence of noncompliance.
9. All records required as a condition of this approval must be made available to the Office of Air Resources or its representative upon request. These records must be maintained for a minimum of five years after the date of each record.

F. Other Permit Conditions

1. To the extent consistent with the requirements of this approval and applicable Federal and State laws, each engine-generator set shall be designed, constructed and operated in accordance with the representation of the equipment in the permit application.
2. Employees of the Office of Air Resources and its authorized representatives shall be allowed to enter the facility at all times for the purpose of inspecting any air pollution source, investigating any condition it believes may be causing air pollution or examining any records required to be maintained by the Office of Air Resources.

3. At all times, including periods of startup, shutdown and malfunction, the owner/operator shall, to the extent practicable, maintain and operate each engine-generator set in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Office of Air Resources which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures and inspection of the source.