

5 May 2009

Mr. Stephen J. O'Rourke  
Providence Housing Authority  
40 Laurel Hill Avenue  
Providence, RI 02909

Dear Mr. O'Rourke:

The Department of Environmental Management, Office of Air Resources has reviewed and approved your applications for a General Permit for a Distributed Generator at your facility located at 263 Chad Brown Street, Providence.

Enclosed are two General Permits issued pursuant to our review of your application (General Permit No. GPDG-1 and GPDG-2).

If there are any questions concerning this permit, please contact me at 222-2808, extension 7020.

Sincerely,

Pamela E. Crump, EIT  
Air Quality Specialist  
Office of Air Resources

cc: Providence Building Official  
Brian Pitreau, AMERESCO

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

GENERAL PERMIT FOR A DISTRIBUTED GENERATOR

*PROVIDENCE HOUSING AUTHORITY*

GENERAL PERMIT NO. GPDG-1

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

*Providence Housing Authority*

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For installation of the following distributed generator:

*Tecogen CM-60LE, 86 hp, 60 kW*

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Located at: *263 Chad Brown Street, Providence*

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**This general permit shall be effective from the date of its issuance and shall remain in effect until revoked by or surrendered to the Department. This general permit does not relieve the *Providence Housing Authority* 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.**

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**Douglas L. McVay, Acting Chief**  
Office of Air Resources

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**Date of Issuance**

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

Permit Conditions and Emission Limitations

**PROVIDENCE HOUSING AUTHORITY**

**GENERAL PERMIT NO. GPDG-1**

A. Emission Limitations

1. Nitrogen Oxides

The emission rate of nitrogen oxides discharged to the atmosphere from the distributed generator shall not exceed 1.00 lbs/MWh.

2. Carbon Monoxide

The emission rate of carbon monoxide discharged to the atmosphere from the distributed generator shall not exceed 2.23 lbs/MWh.

3. Carbon Dioxide

The emission rate of carbon dioxide discharged to the atmosphere from the distributed generator shall not exceed 1,900 lbs/MWh.

4. Sulfur Dioxide

The sulfur content of any gaseous fuel burned in the distributed generator shall not exceed 10 grains total sulfur per 100 dry standard cubic feet.

5. Visible emissions from the distributed generator 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 a distributed generator. 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 the distributed generator shall not exceed 782 cubic feet per hour.

C. 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 fuel use for the distributed generator for the previous 12 month period.
2. 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.
3. The owner/operator shall notify the Office of Air Resources, in writing, of the date of actual start-up of the distributed generator.
4. The owner/operator shall notify the Office of Air Resources in writing of any planned physical or operational change to this emergency generator 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.

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.

5. The owner/operator shall notify the Office of Air Resources of any noncompliance with the terms of this permit, in writing, within 5 days of the occurrence.
6. All records required as a condition of this permit 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.

D. Other Permit Conditions

1. To the extent consistent with the requirements of this approval and applicable Federal and State laws, the emergency generator 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 the emergency generator 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 emergency generator.

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

GENERAL PERMIT FOR A DISTRIBUTED GENERATOR

*PROVIDENCE HOUSING AUTHORITY*

GENERAL PERMIT NO. GPDG-2

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

*Providence Housing Authority*

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For installation of the following distributed generator:

*Tecogen CM-60LE, 86 hp, 60 kW*

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Located at: *263 Chad Brown Street, Providence*

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**This general permit shall be effective from the date of its issuance and shall remain in effect until revoked by or surrendered to the Department. This general permit does not relieve the *Providence Housing Authority* 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.**

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**Douglas L. McVay, Acting Chief**  
Office of Air Resources

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**Date of Issuance**

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

Permit Conditions and Emission Limitations

**PROVIDENCE HOUSING AUTHORITY**

**GENERAL PERMIT NO. GPDG-2**

A. Emission Limitations

1. Nitrogen Oxides

The emission rate of nitrogen oxides discharged to the atmosphere from the distributed generator shall not exceed 1.00 lbs/MWh.

2. Carbon Monoxide

The emission rate of carbon monoxide discharged to the atmosphere from the distributed generator shall not exceed 2.23 lbs/MWh.

3. Carbon Dioxide

The emission rate of carbon dioxide discharged to the atmosphere from the distributed generator shall not exceed 1,900 lbs/MWh.

4. Sulfur Dioxide

The sulfur content of any gaseous fuel burned in the distributed generator shall not exceed 10 grains total sulfur per 100 dry standard cubic feet.

5. Visible emissions from the distributed generator 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 a distributed generator. 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 the distributed generator shall not exceed 782 cubic feet per hour.

C. 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 fuel use for the distributed generator for the previous 12 month period.
2. 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.
3. The owner/operator shall notify the Office of Air Resources, in writing, of the date of actual start-up of the distributed generator.
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  - 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.

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.
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