26 August 2013

Julia A. Forgue, PE Director of Utilities City of Newport - Department of Utilities 70 Halsey Street Newport, RI 02840

Dear Ms. Forgue,

The Department of Environmental Management, Office of Air Resources has reviewed and approved your applications for three General Permits for Emergency Generators to be located at the following sites: 100 Bliss Mine Rd, Newport at the Station No. 1 Water Treatment Plant and 2154 West Main Rd, Portsmouth at the Lawton Valley Water Treatment Plant, one serving the Raw Water Pump Station and one serving the Operations Building.

Enclosed are the General Permits issued pursuant to our review of your application (General Permit Nos. GPEG-172 through 174).

If there are any questions concerning this permit, please contact me at 401-222-2808, extension 7110 or at ruth.gold@dem.ri.gov.

Sincerely,

Ruth A. Gold Principal Air Quality Specialist Office of Air Resources

cc: Newport Building Official Portsmouth Building Official Brian Daly, AECOM

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

GENERAL PERMIT FOR AN EMERGENCY GENERATOR

City of Newport - Department of Utilities

GENERAL PERMIT NO. GPEG-172

| Pursuant to the p issued to: | rovisions of Air Pollution | Control Regulation No. 9, this general permit is |
|---|---|--|
| _ | City of Newport - | Department of Utilities |
| For installation of | f the following emergency | generator: |
| Cat | erpillar Generator – Model | No. D100-6, Serial No. CAT00C44KD4B02432 |
| | 157 HP, 100 | kW, Diesel-fired |
| | | |
| Located at: | 100 Bliss Mine I | Rd, Newport |
| St | ation No. 1 Water Treatmen | t Plant - Raw Water Pump Station |
| revoked by or sur Newport - Departn control rules and r | rendered to the Department The nent of Utilities from compli | date of its issuance and shall remain in effect untilent. This general permit does not relieve City of ance with applicable state and federal air pollution astruction and operation of this equipment shall be mission limitations. |
| Douglas L. McVa Office of Air Reso | • - | Date of Issuance |

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

Permit Conditions and Emission Limitations

CITY OF NEWPORT - DEPARTMENT OF UTILITIES

GENERAL PERMIT NO. GPEG-172

A. Emission Limitations

1. Sulfur Dioxide

The sulfur content of any liquid fuel burned in the emergency generator shall not exceed 15 ppm by weight.

2. Carbon Dioxide

The emission rate of carbon dioxide discharged to the atmosphere from the emergency generator shall not exceed 1900 lbs/MWh.

3. Visible emissions from the emergency 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 an emergency 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 emergency generator shall not exceed 7.9 gallons per hour.
- 2. The emergency generator shall not operate more than 500 hours in any 12-month period.
- 3. The emergency generator shall be used only during emergencies or for maintenance or testing purposes. Emergency means an electric power outage due to a failure of the electrical grid, on-site disaster, local equipment failure, or public service emergencies such as flood, fire, or natural disaster. Emergency shall also mean periods during which ISO New England, or any successor Regional Transmission Organization, directs the implementation of operating procedures for voltage reductions, voluntary load curtailments by customers or automatic or manual load shedding within Rhode Island in response to unusually low frequency, equipment overload, capacity or energy deficiency, unacceptable voltage levels or other such emergency conditions.

4. The emergency generator shall not be operated in conjunction with any voluntary demand-reduction program or any other interruptible power supply arrangement with a utility, other market participant or system operator unless such program is implemented at the same time as ISO New England, or any successor Regional Transmission Organization, directs the implementation of operating procedures for voltage reductions, voluntary load curtailments by customers or automatic or manual load shedding within Rhode Island in response to unusually low frequency, equipment overload, capacity or energy deficiency, unacceptable voltage levels or other such emergency conditions.

C. Continuous Monitoring

1. The emergency generator shall be equipped with a non-resettable elapsed time meter to indicate, in cumulative hours, the elapsed engine operating time for the unit.

D. Fuel Oil Testing

- 1. Compliance with the diesel fuel sulfur limit shall 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 City of Newport Department of Utilities 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.

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 for the emergency generator 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 exceeds 500 hours for the emergency generator.
- 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 oil analysis and these copies shall be made accessible for review by the Office of Air Resources or its authorized representative and EPA.
- 5. The owner/operator shall notify the Office of Air Resources, in writing, of the date of actual start-up of the emergency generator.
- 6. 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.

- 7. 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.
- 8. All records required as a condition of this permit shall be maintained for a minimum of five years after the date of each record and shall be made available to representatives of the Office of Air Resources upon request.

F. 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.
- 4. The owner/operator is subject to the requirements of 40 CFR 60, Subpart A (General Provisions) and Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines). Compliance with all applicable provisions therein is required.

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

GENERAL PERMIT FOR AN EMERGENCY GENERATOR

City of Newport - Department of Utilities

GENERAL PERMIT NO. GPEG-173

| Pursuant to the p issued to: | rovisions of Air Pollution (| Control Regulation No. 9, this general permit is |
|---|--|--|
| | City of Newport - D | Department of Utilities |
| For installation of | f the following emergency g | enerator: |
| | Caterpillar Generator – | Model No. C-9, Diesel-fired |
| | 398 HI | P, 250 kW |
| | | |
| Located at: | 2154 West Main I | Road, Portsmouth |
| La | wton Valley Water Treatmen | t Plant - Raw Water Pump Station |
| revoked by or sur Newport - Departm control rules and r | rendered to the Department nent of Utilities from complia | late of its issuance and shall remain in effect untile. This general permit does not relieve City of nee with applicable state and federal air pollution struction and operation of this equipment shall be nission limitations. |
| Douglas L. McVa Office of Air Reso | • / | Date of Issuance |

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

Permit Conditions and Emission Limitations

CITY OF NEWPORT - DEPARTMENT OF UTILITIES

GENERAL PERMIT NO. GPEG-173

A. Emission Limitations

1. Sulfur Dioxide

The sulfur content of any liquid fuel burned in the emergency generator shall not exceed 15 ppm by weight.

2. Carbon Dioxide

The emission rate of carbon dioxide discharged to the atmosphere from the emergency generator shall not exceed 1900 lbs/MWh.

3. Visible emissions from the emergency 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 an emergency 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 emergency generator shall not exceed 19.4 gallons per hour.
- 2. The emergency generator shall not operate more than 500 hours in any 12-month period.
- 3. The emergency generator shall be used only during emergencies or for maintenance or testing purposes. Emergency means an electric power outage due to a failure of the electrical grid, on-site disaster, local equipment failure, or public service emergencies such as flood, fire, or natural disaster. Emergency shall also mean periods during which ISO New England, or any successor Regional Transmission Organization, directs the implementation of operating procedures for voltage reductions, voluntary load curtailments by customers or automatic or manual load shedding within Rhode Island in response to unusually low frequency, equipment overload, capacity or energy deficiency, unacceptable voltage levels or other such emergency conditions.

4. The emergency generator shall not be operated in conjunction with any voluntary demand-reduction program or any other interruptible power supply arrangement with a utility, other market participant or system operator unless such program is implemented at the same time as ISO New England, or any successor Regional Transmission Organization, directs the implementation of operating procedures for voltage reductions, voluntary load curtailments by customers or automatic or manual load shedding within Rhode Island in response to unusually low frequency, equipment overload, capacity or energy deficiency, unacceptable voltage levels or other such emergency conditions.

C. Continuous Monitoring

1. The emergency generator shall be equipped with a non-resettable elapsed time meter to indicate, in cumulative hours, the elapsed engine operating time for the unit.

D. Fuel Oil Testing

- 1. Compliance with the diesel fuel sulfur limit shall 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 City of Newport Department of Utilities 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.

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 for the emergency generator 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 exceeds 500 hours for the emergency generator.
- 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 oil analysis and these copies shall be made accessible for review by the Office of Air Resources or its authorized representative and EPA.
- 5. The owner/operator shall notify the Office of Air Resources, in writing, of the date of actual start-up of the emergency generator.
- 6. 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.

- 7. 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.
- 8. All records required as a condition of this permit shall be maintained for a minimum of five years after the date of each record and shall be made available to representatives of the Office of Air Resources upon request.

F. 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.
- 4. The owner/operator is subject to the requirements of 40 CFR 60, Subpart A (General Provisions) and Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines). Compliance with all applicable provisions therein is required.

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

GENERAL PERMIT FOR AN EMERGENCY GENERATOR

City of Newport - Department of Utilities

GENERAL PERMIT NO. GPEG-174

| Pursuant to the paissued to: | rovisions of Air Pollution Co | ontrol Regulation No. 9, this general permit is |
|---|--|--|
| | City of Newport - De | epartment of Utilities |
| For installation of | f the following emergency ge | nerator: |
| | Caterpillar Generator – M | odel No. C-18, Diesel-fired |
| | 900 HP | , 600 kW |
| | 2154W . M . D | |
| Located at: | 2154 West Main R Lawton Valley Water Treatme | nt Plant - Operations Building |
| revoked by or sur Newport - Departm control rules and r | rendered to the Department. nent of Utilities from complian | ate of its issuance and shall remain in effect until This general permit does not relieve City of ce with applicable state and federal air pollution ruction and operation of this equipment shall be ission limitations. |
| Douglas L. McVa; Office of Air Reso | • / | Date of Issuance |

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

Permit Conditions and Emission Limitations

CITY OF NEWPORT - DEPARTMENT OF UTILITIES

GENERAL PERMIT NO. GPEG-174

A. Emission Limitations

1. Sulfur Dioxide

The sulfur content of any liquid fuel burned in the emergency generator shall not exceed 15 ppm by weight.

2. Carbon Dioxide

The emission rate of carbon dioxide discharged to the atmosphere from the emergency generator shall not exceed 1900 lbs/MWh.

3. Visible emissions from the emergency 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 an emergency 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 emergency generator shall not exceed 42.7 gallons per hour.
- 2. The emergency generator shall not operate more than 500 hours in any 12-month period.
- 3. The emergency generator shall be used only during emergencies or for maintenance or testing purposes. Emergency means an electric power outage due to a failure of the electrical grid, on-site disaster, local equipment failure, or public service emergencies such as flood, fire, or natural disaster. Emergency shall also mean periods during which ISO New England, or any successor Regional Transmission Organization, directs the implementation of operating procedures for voltage reductions, voluntary load curtailments by customers or automatic or manual load shedding within Rhode Island in response to unusually low frequency, equipment overload, capacity or energy deficiency, unacceptable voltage levels or other such emergency conditions.

4. The emergency generator shall not be operated in conjunction with any voluntary demand-reduction program or any other interruptible power supply arrangement with a utility, other market participant or system operator unless such program is implemented at the same time as ISO New England, or any successor Regional Transmission Organization, directs the implementation of operating procedures for voltage reductions, voluntary load curtailments by customers or automatic or manual load shedding within Rhode Island in response to unusually low frequency, equipment overload, capacity or energy deficiency, unacceptable voltage levels or other such emergency conditions.

C. Continuous Monitoring

1. The emergency generator shall be equipped with a non-resettable elapsed time meter to indicate, in cumulative hours, the elapsed engine operating time for the unit.

D. Fuel Oil Testing

- 1. Compliance with the diesel fuel sulfur limit shall 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 City of Newport Department of Utilities 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.

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 for the emergency generator 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 exceeds 500 hours for the emergency generator.
- 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 oil analysis and these copies shall be made accessible for review by the Office of Air Resources or its authorized representative and EPA.
- 5. The owner/operator shall notify the Office of Air Resources, in writing, of the date of actual start-up of the emergency generator.
- 6. 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.

- 7. 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.
- 8. All records required as a condition of this permit shall be maintained for a minimum of five years after the date of each record and shall be made available to representatives of the Office of Air Resources upon request.

F. 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.
- 4. The owner/operator is subject to the requirements of 40 CFR 60, Subpart A (General Provisions) and Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines). Compliance with all applicable provisions therein is required.

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