

Connecticut Department of
**ENERGY &
ENVIRONMENTAL
PROTECTION**

**BUREAU OF AIR MANAGEMENT
TITLE V OPERATING PERMIT**

Issued pursuant to Title 22a of the Connecticut General Statutes (CGS) and Section 22a-174-33 of the Regulations of Connecticut State Agencies (RCSA) and pursuant to the Code of Federal Regulations (CFR), Title 40, Part 70.

Title V Permit Number	107-0043-TV
Client/ Sequence /Town/Premises Numbers	7741/0003/107/0005
Date Issued	July 31, 2012
Expiration Date	July 31, 2017

Corporation:

Montville Power LLC

Premises Location:

74 Lathrop Road, Uncasville, CT 06382

Name of Responsible Official and Title:

Jeffery Araujo, Plant Manager

All the following attached pages, 2 through 41, are hereby incorporated by reference into this Title V Operating Permit.

/s/ Anne Gobin for
Daniel C. Esty
Commissioner

July 31, 2012
Date

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Title V Operating Permit

All conditions in Sections III, IV, and VI of this Title V permit are enforceable by both the Administrator and the commissioner unless otherwise specified. Applicable requirements and compliance demonstration are set forth in Section III of this Title V permit. The Administrator or any citizen of the United States may bring an action to enforce all permit terms or conditions or requirements contained in Sections III, IV, and VI of this Title V permit in accordance with the Clean Air Act, as amended.

LIST OF ABBREVIATIONS/ACRONYMS

<i>Abbreviation/Acronym</i>	<i>Description</i>
acfm	Actual cubic feet per minute
CAM	Compliance Assurance Monitoring
CAIR	Clean Air Interstate Rule
CEM	Continuous Emission Monitor
CFR	Code of Federal Regulations
CGS	Connecticut General Statutes
CO	Carbon Monoxide
CO ₂	Carbon Dioxide
CP/OP	Construction Permit/Operating Permit
DEEP	Department of Energy and Environmental Protection
EU	Emissions Unit
EPA	Environmental Protection Agency
ERC	Emission Reduction Credit
ESP	Electrostatic Precipitator
GEU	Grouped Emissions Units
gph	Gallons per hour
gpm	Gallons per minute
HAP	Hazardous Air Pollutants
hr	Hour
lb	Pound
NO _x	Nitrogen Oxides
NSR	New Source Review
Pb	Lead
PM	Particulate Matter
PM ₁₀	Particulate Matter less than 10 microns
RCSA	Regulations of Connecticut State Agencies
SIC	Standard Industrial Classification Code
SO ₂	Sulfur Dioxide
SO _x	Sulfur Oxides
SOS	Standard Operating Scenario
tpy	Tons per year
TSP	Total Suspended Particulate
VOC	Volatile Organic Compound

Section I: Premises Information/Description

A. PREMISES INFORMATION

Nature of Business: Electric Power Generation
Primary SIC: 4911
Other SIC: None

Facility Mailing Address: Montville Power LLC
74 Lathrop Road,
Montville, CT 06382

Telephone Number: (860) 848-9248

B. PREMISES DESCRIPTION

Montville Station is located on Lathrop Road in Uncasville, Connecticut. The station produces electricity for sale. The station consists of two steam electric generating boilers (Units 5 and 6) and two diesel generators for the production of electricity. Additional emissions units at the station include two auxiliary boilers for steam, a diesel-fired fire pump, and a diesel-fired air compressor. The total electrical output from the station is 488 megawatts (MW). Montville Station is a major source of air pollution for the following pollutants: NO_x, SO_x, PM, and HAP.

The steam electric generating boilers at Montville are Combustion Engineering (CE) tangentially fired boilers. They are located within the main power plant building.

Unit 5 (EU1), Registration # 107-0017, is rated at 995 million Btu/hr and is capable of producing 81 MW. Unit 5 can burn No.6 oil and natural gas on an interruptible basis. No. 2 oil is used for startup, shutdown and operational stabilization. It is equipped with an electrostatic precipitator for particulate emission control and NO_x emissions are controlled by using excess air in the combustion process. Unit 5 is a Phase II Acid Rain Source and the CEM system has been certified in accordance with 40CFR75. Unit 5 is subject to Trading Agreement & Order No. 8306 (NO_x RACT), Consent Order No. 1887 (Opacity) and RCRA §22a-174-22c (CAIR). The boiler is equipped with CEM for CO₂, NO_x, SO₂ and opacity for compliance verification.

Unit 6 (EU2), Registration # 107-0020, is rated at 4,658 million Btu/hr and is capable of producing 402 MW. Unit 6 burns No.6 oil as the primary fuel and No. 2 oil is used for startup, shutdown and operational stabilization. NO_x emissions are controlled by using excess air in the combustion process. Unit 6 is also a Phase II Acid Rain Source and its CEM system is also certified in accordance with 40CFR75. Unit 6 is subject to Trading Agreement & Order No. 8306 (NO_x RACT), Consent Order No. 1887 (Opacity), RCRA §22a-174-22c (CAIR). The boiler is equipped with CEM for CO₂, NO_x, SO₂ and opacity for compliance verification.

Units 5 and 6 are considered Electric Generating Units as defined by the Mercury and Air Toxics Standards (MATS), 40 CFR Part 63 Subpart UUUUU, for power plants. The units will comply with this regulation by the April 16, 2015 deadline.

Section I: Premises Information/Description

B. PREMISES DESCRIPTION, continued

Units 7 and 8 (EU3 & EU4), NSR Permits 107-0012 and 107-0013, are Foster Wheeler front-fired, dual fuel, auxiliary steam boilers. These units are used to provide steam for boiler warm-up. Both boilers are capable of burning No.2 oil and natural gas. Since Montville Station is considered a major source of HAP emissions these units will be subject to the National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR Part 63 Subpart DDDDD, and will comply with this regulation at the required compliance date when this rule is finalized. These NSR permits have collateral conditions concerning the amount and sulfur content of the distillate fuel allowed to be combusted in EU5 and EU6.

Units 10 and 11 (EU5 & EU6), Registrations R107-0021 and R107-0022, are EMD 2.5 MW diesel generators subject to Trading Agreement and Order No.8315 (NOx RACT). These units are located to the west of the main power plant building. These units are subject to collateral conditions in NSR Permits 107-0012 and 107-0013 that limits the annual amount of combined fuel use and the sulfur content of the fuel. These units are existing stationary diesel engines located at a major source of HAP emissions and are subject to the National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines (RICE), 40 CFR Part 63 Subpart ZZZZ. These units will comply with this regulation by the May 3, 2013 compliance deadline.

Emissions Unit 7 (EU7) is a Cummins diesel fire pump for emergency situations. This engine is located to the East of the main power plant building. The unit burns 0.05% sulfur No.2 oil. The pump is tested for 15 minutes on a monthly basis to assure proper operation. This unit is currently operating under the provisions of RCSA §22a-174-3b(e). EU7 is considered an existing emergency engine of less than 500 hp pursuant to 40 CFR Part 63 Subpart ZZZZ and this unit will comply with this regulation by the May 3, 2013 compliance deadline.

The Montville Station may receive, store, and blend No.6 oil with > 1.0% sulfur. This activity has been determined to be less than 1.0 ton per year of potential emissions and thus is deemed an insignificant activity. However, the approval continues to be in effect given that Montville Power LLC complies with the terms and conditions listed for fuel blending in Section III 'Premises Applicable Requirements' of this permit.

Section II: Emissions Units Information

A. EMISSIONS UNITS IDENTIFICATION:

Emissions units are set forth in Table II.A. It is not intended to incorporate by reference these NSR Permits, Orders, or Registrations into this Title V permit.

TABLE II.A: EMISSIONS UNIT DESCRIPTION			
Emissions Units	Emissions Unit Description	Control Unit Description	Permit, Order, or Registration Number
EU1	Combustion Engineering , Type R Dual fuel fired 995 MMBtu/hr, 82 MW electric utility steam boiler, Unit 5; Installed 01/01/54	Electrostatic Precipitator	R107-0017, Trading Agreement & Order No. 8306, Consent Order No. 1887
EU2	Combustion Engineering, Type RRP No.6 oil fired 4,658 MMBtu/hr, 402 MW electric utility steam boiler, Unit 6; Installed 01/01/71	None	R107-0020, Trading Agreement & Order No. 8306, Consent Order No. 1887
EU3	Dual fuel fired Foster Wheeler AG 560 auxiliary steam boiler subject to 40 CFR 60 Subpart Dc, Unit 7; Installed 04/01/91	None	107-0012
EU4	Dual fuel fired Foster Wheeler AG 560 auxiliary steam boiler subject to 40 CFR 60 Subpart Dc, Unit 8; Installed 01/01/91	None	107-0013
EU5	EMD#20645 2.75 MW diesel generator, Unit 10; Installed 01/01/1967	None	R107-0021 and Trading Agreement Order No.8315
EU6	EMD#20645 2.75 MW diesel generator, Unit 11; Installed 01/01/67	None	R107-0022 and Trading Agreement Order No.8315
EU7	Cummins #NT855F5 diesel emergency fire pump; Installed 12/01/89	None	RCSA 22a-174-3b(e)
GEU1	EU1 and EU2	None	See Above
GEU2	EU3 and EU4	None	See above
GEU3	EU5 and EU6	None	See above

Section II: Emissions Units Information

TABLE II.A.1: EMISSIONS UNITS DESCRIPTION			
Emissions Unit/ Grouped Emission Unit	Emissions Unit Description	Control Unit Description	Permit, Order, Registration, or Regulation Number
<i>All applicable requirements for the following units are listed in the premises-wide general requirements portion of this permit:</i>			
GEU4	(3) No. 6 Fuel Oil Tanks - 22,057,000 Gallons; All constructed prior to July 23, 1984 (NSPS applicability date)	None	None
EU9	(1) Zep Dyna 142 Parts Cleaner - ~ 30 Gallons	None	None
EU10	(1) 1232 - Dispersant Tank - Heavy Aromatic Naptha - 6,000 Gallons	None	None
EU11	(1) No. 6 Oil Day Tank A - 649,740 Gallons; Constructed 1969	None	None
EU12	(1) No. 6 Oil Day Tank B - 365,000 Gallons; Constructed 1969	None	None
EU13	(1) No. 2 Oil Tank 4 - 50,000 Gallons; Constructed 1997	None	None
EU14	(1) No. 2 Oil Tank D - 18,000 Gallons; Constructed 1966	None	None
EU15	(1) Emergency Fire Pump Diesel Fuel Oil Tank - 275 Gallons	None	None
EU16	(1) Sampling Tank No. 6 Fuel Oil - 275 Gallons	None	None
EU17	Sodium Hypochlorite Tank - 4,500 Gallons; Constructed 1998	None	None
EU18	Calcium Nitrate Tank - 6,000 Gallons; Constructed 1996	None	None
EU19	Demineralized Sulfuric Acid Tank - 5,000 Gallons; Constructed 1970	None	None
EU20	Demineralized Caustic Soda - 5,000 Gallons; Constructed 1970	None	None

Section II: Emissions Units Information

B. OPERATING SCENARIO IDENTIFICATION

The Permittee shall be allowed to operate under the following Standard Operating Scenarios (SOS) without notifying the commissioner, provided that such operations are explicitly provided for and described in the Table II.B below.

TABLE II.B: OPERATING SCENARIO IDENTIFICATION		
Identification of Operating Scenarios	Emissions Units Associated with the Scenario	Description of Scenario
SOS	All Emissions Units	All emissions units associated with SOS shall be operated in accordance with applicable permit or registration terms and conditions and in accordance with best management practices while combusting liquid fuels or natural gas as allowed.

Section III: Applicable Requirements and Compliance Demonstration

The following tables contain summaries of applicable regulations and compliance demonstration for each identified Emissions Unit and Operating Scenario, regulated by this permit.

A. GROUPED EMISSIONS UNIT 1 (GEU1): Two steam electric generating boilers; Registration Nos. 107-0017, 107-0020; Trading Agreement and Order No. 8306; Consent Order No. 1887 (40 CFR Part 63 Subpart UUUUU (MATS) Compliance Date: 04/16/2015)

1. Nitrogen Oxides (NO_x)

a. Limitation or Restriction [RCSA 22a-174-22(e)]

i. No. 6 Oil

Less than or equal to 0.25 lbs/MMBtu. (EU1 and EU2)

ii. Natural Gas

Less than or equal to 0.20 lbs/MMBtu. (EU1)

iii. All Fuels

Less than or equal to 0.15 lbs/MMBtu during the period from October 1 to April 30, inclusive. [RCSA 22a-174-22(e)(3)]

b. Monitoring Requirements

i. For each fuel combusted the Permittee shall monitor monthly and annual fuel consumption in accordance with Section VI.E of this permit. [RCSA §22a-174-33(j)(1)(K)(ii); RCSA 22a-174-22(l)(1)(C)]

ii. The permittee shall install, calibrate, maintain, operate and certify a continuous emissions monitor for NO_x. The permittee shall notify the Commissioner in writing at least thirty, (30) days prior to conducting any performance or quality assurance testing of any such monitor. Any such testing shall be conducted in accordance with a testing protocol approved by the Commissioner. Any continuous emissions monitor for NO_x shall be installed, calibrated and operated in accordance with the performance and quality assurance specifications contained in 40 CFR 60, Subpart A, Appendix B and Appendix F. [RCSA §22a-174-22(k)(3)]

iii. The averaging times for the following emission limitations shall be:

A. For the emissions limitation in subsection (e)(3), of RCSA §22a-174-22, the period from October 1 to April 30, inclusive, including all periods of operation, including startup, shutdown, and malfunction; and [RCSA §22a-174-22(k)(4)(A)]

B. For any other emission limitation contained in subsection (e)(1), of RCSA §22a-174-22, twenty-four (24) hours, measured from midnight at the beginning of any day to midnight of the end of that day, including all periods of operation, including startup, shutdown, and malfunction. [RCSA §22a-174-22(k)(4)(B)]

Section III: Applicable Requirements and Compliance Demonstration

- c. Record Keeping Requirements [RCSA 22a-174-22(l)(1); RCSA §22a-174-33(j)(1)(K)(ii)]
- i. In accordance with Section VI.F or this permit, the Permittee shall make and keep the following records:
 - A. Monthly and annual records of NO_x emissions;
 - B. Procedures for calculating NO_x emission rates;
 - C. Records of all tune-ups, repairs, replacement of parts and other maintenance;
 - D. Copies of all documents submitted to the Commissioner pursuant to this section;
 - E. All charts, electronically stored data, and printed records produced by such continuous emissions monitor;
 - F. For each fuel combusted the Permittee shall keep records of monthly and annual fuel consumption. Annual fuel consumption shall be based on any twelve (12) month period and shall be determined by adding the current month's fuel usage to that of the previous eleven (11) months. The Permittee shall make these calculations within thirty (30) days of the end of the previous month.
 - G. Records of the dates, times, and places of all performance or quality assurance testing required by this section, the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing;
 - H. Records of all performance evaluations, calibration checks and adjustments on continuous emissions monitor; a record of maintenance procedures.
 - I. The permittee shall make and keep records in accordance with 40 CFR Part 75.50-75.59
- d. Reporting Requirements
- i. The Permittee shall submit reports within sixty (60) days of the completion of certification tests conducted under the requirements of RCSA 22a-174-22(k)(3), the owner or operator of such source shall submit a written report of the results of such testing to the Commissioner; [RCSA 22a-174-22(l)(3)]
 - ii. The permittee shall submit to the Commissioner written quarterly reports of excess emissions and CEM malfunctions. Such reports shall be submitted to the Commissioner on or before January 30, April 30, July 30, and October 30 and shall include data for the three calendar month period ending the month before the due date of the report. For each period of excess emissions, such report shall include the date and time of commencement and completion of such period, the magnitude and suspected cause of the excess emissions and all actions taken to correct the excess emissions. For each malfunction of the CEM system, such report shall include the date and time of when the malfunction commenced and ended, and all actions taken to correct the malfunction. [RCSA §22a-174-22(l)(4)]
 - iii. The permittee shall submit all required reports in accordance with 40 CFR Part 75.60-75.67

Section III: Applicable Requirements and Compliance Demonstration

- iv. On or before April 15 of each year, the permittee shall submit a report on NO_x emissions from such source, on a form provided by the Commissioner. [RCSA §22a-174-22(1)(6)]
- v. The Permittee shall submit all required reports in accordance with Section VI.E of this permit.

e. CAIR NO_x Ozone Season Trading

GEU1 are CAIR NO_x Ozone season units and therefore are subject to RCSA Section 22a-174-22c. The units shall comply with all applicable requirements stated in RCSA Section 22a-174-22c and the standard requirements of the CAIR permit application.

2. NO_x RACT COMPLIANCE: Grouped Emissions Unit 1 (GEU1) shall comply with Trading Agreement and Order No. 8306 at all times

a. Limitation or Restriction

NO_x emissions shall not exceed the allowable emissions limits (AEL) in Table 1 of Trading Agreement and Order No. 8306.

b. Maintenance and Tune-up

Not more than 2 years from the date of issuance of Trading Agreement and Order No. 8306, the Permittee shall perform maintenance and inspection of each emission. Such maintenance and inspection shall include, but not be limited to, the following:

- i. Inspect the combustion system, and clean or replace any components of the combustion system as necessary, in accordance with manufacturer's specification or current good engineering practice;
- ii. Inspect the system controlling the air-to-fuel ratio, and ensure that it is calibrated and functioning in accordance with the manufacturer's specifications or current good engineering practice;
- iii. Measure the operating parameters of the emission unit used to determine that the emission unit is operating in accordance with manufacturer's specification or current good engineering practice prior to and after any adjustments are made during maintenance, tune-up, or inspection activity; and
- iv. Make and keep records including, but not limited to, the following:
 - A. Demonstration that any maintenance, tune-up, and/or inspection activity performed on the emission units been performed in accordance with the manufacturer's specifications or current good engineering practice,
 - B. The date and a description of any maintenance, tune-up, and/or inspection activity performed on the emission units described,
 - C. The name, title and affiliation of the person conducting any maintenance, tune-up, and/or inspection activity performed on the emission units,
 - D. The operating parameters of the emission unit used to determine that the emission unit is operating in accordance with manufacturer's specification or current good engineering practice prior to and after any adjustments are made during maintenance, tune-up, or inspection activity performed in accordance with Paragraph B.17 of Trading Agreement and Order No. 8306.

Section III: Applicable Requirements and Compliance Demonstration

c. Record Keeping

- i. By the close of each calendar day, the Permittee shall record the actual 24-hour average NO_x emission rate for any emission unit equipped with an approved CEMS, the actual fuel type and the actual quantity of each type of fuel in units of volume per day or MMBtu per day for each fuel used on the preceding day in an emission unit,
- ii. On or before the first day of each calendar month, the Permittee shall record the number of DERCs and corresponding serial numbers and vintages for all DERCs in its possession on the first calendar day of that calendar month,
- iii. On or before the first day of each calendar month, the Permittee shall record the number of Allowances and corresponding identification numbers and allocation control periods for all Allowances in its possession on the first calendar day of that calendar month,
- iv. On or before the first day of each calendar month, the Permittee shall record the number of DERCs and corresponding serial numbers, vintages, purchase/sales dates, and seller/buyer for all DERCs purchased or sold during the preceding calendar month,
- v. On or before the first day of each calendar month, the Permittee shall record the number of Allowances and corresponding identification numbers, purchase/sales dates, allocation years, and seller/buyer for all Allowances purchased or sold during the preceding calendar month (Transaction reports generated from the CAIR NATs shall suffice for the purposes of this subparagraph),
- vi. On or before the first day of each calendar month, the Permittee shall record the Estimated DERCs/Allowances Required for that calendar month,
- vii. On or before the twentieth calendar day of each calendar month, the Permittee shall record the Actual DERCs/Allowances Required for the preceding calendar month,
- viii. On or before the twentieth calendar day of each calendar month, the Permittee shall record the Actual DERCs Generated for the preceding calendar month determined and DERCs retired for environmental benefit,
- ix. On or before January 31 of each calendar year, the Permittee shall record the quantity of DERCs deducted for the preceding month. Such records shall include the serial number and vintage of each DERC deducted from the Permittee' current balance,
- x. On or before January 31 of each calendar year, the Permittee shall record the quantity of Allowances transferred. Such records shall include the identification number and allocation control period of each Allowance transferred,
- xi. Not more than thirty (30) days after the completion of each Non-Ozone Season, the Permittee shall record the Non-Ozone Season Average NO_x emission rate for all emissions units, the quantity of DERCs and/or allowances possessed on the first day of the Non-Ozone Season, the quantity of DERCs deducted and/or Allowances transferred, the quantity of DERCs generated during the Non-Ozone Season, and the quantity of Non-Ozone Season DERCs generated during the Non-Ozone Season and retired for environmental benefit,
- xii. For each month of the Ozone season, the Permittee shall maintain records attesting to the fact that any DERCs deducted from its balance satisfy the requirements of this Trading Agreement and Order. Generator certification of this fact shall be sufficient, and

Section III: Applicable Requirements and Compliance Demonstration

xiii. On each day during the ozone season that the Permittee operate in accordance with Paragraph B.7 of this Trading Agreement and Order, the Permittee shall make and keep Records of all emission unit operation in accordance with Paragraph B.7 of Trading Agreement and Order No. 8306, including copies of any written correspondence from the Permittee's fuel supplier detailing the duration and circumstances of the inadequate fuel oil supply or interruption of gaseous fuel supply to the emission units.

d. Reporting

No later than March 1 of every year, the Permittee shall submit to the Commissioner a written report containing copies of all of the records required pursuant to Paragraphs B.18.a. – B.18.j, B.18.l and B.18.m of Trading Agreement and Order No. 8306. Not later than July 30 of each calendar year, the Permittee shall submit a written report containing copies of all records required pursuant to Paragraph B.18.k of Trading Agreement and Order No. 8306. The Commissioner may prescribe the forms to be used for the submission of these reports. The Permittee shall submit these reports on such forms, if prescribed by the Commissioner.

3. Particulate Matter (PM)

a. Limitation or Restriction

i. PM emissions shall be less than or equal to:

A. 0.14 lbs/MMBtu when operating on No. 6 oil. (EU1 and EU2) [RCSA §22a-174-18(e)(2)(A)]

B. 0.12 lbs/MMBtu when operating on No. 2 oil. (EU1) [RCSA §22a-174-18(e)(2)(B)]

C. 0.10 lbs/MMBtu when operating on natural gas. (EU1) [RCSA §22a-174-18(e)(2)(C)]

b. Monitoring Requirements [RCSA §22a-174-33(j)(1)(K)(ii)]

For each fuel combusted the Permittee shall monitor monthly and annual fuel consumption in accordance with Section VI.E of this permit. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements [RCSA §22a-174-33(j)(1)(K)(ii)]

In accordance with Section VI.F of this permit the permittee shall make and keep records sufficient to show compliance with the following:

i. Monthly and annual fuel consumption for each fuel combusted.

ii. Calculate and record the monthly and consecutive 12 month TSP emissions in units of tons. The consecutive 12 month emission shall be determined by adding the current month's emissions to that of the previous 11 months. Records to show compliance with the emissions limits in Section III.A.3.a.i above. Such records shall include a sample calculation for each pollutant using fuel consumption, AP-42, manufacturer's data or other appropriate emissions factor. The permittee shall make these calculations within 30 days of the end of the previous month.

d. Reporting Requirements

The Permittee shall submit all required reports in accordance with Section VI.E of this permit.

Section III: Applicable Requirements and Compliance Demonstration

3.A Compliance Assurance Monitoring (CAM) Plan for EU1 only.

Hamon Research Cottrell Electrostatic Precipitator (ESP) Power Monitoring.

a. CAM Plan Justification

The justification for using the proposed CAM approach is based upon the principle that adequate power must be applied to the ESP in order to develop the electrically charged field that drives the collection of particulate matter (pm) as it passes through the various fields. As power gets up to moderate to high levels, the relationship between power and performance becomes relatively “flat”. This break point for Unit 5 is 27 kW secondary power.

b. Operational Restrictions

- i. The total combined power input (in kilowatts) to all fields of the ESP system, for any hour when the emissions unit is in operation at 60 MW (Gross) or more, shall be no less than 27 secondary kilowatts.
- ii. During periods when the boiler is at reduced load 0-70%, power deviations will not be noted.
- iii. A CAM excursion will occur if the total combined power is found to be less than 27 secondary kilowatts and the emissions unit is operational at 60 MW (gross) or more. A CAM excursion for the COMS will occur if opacity levels exceed the limitations in Section III.A.4.a.iii of this permit. Under these conditions the permittee shall:
 - A. Note that there is a problem,
 - B. Take necessary corrective actions to restore normal operation, and
 - C. Submit required reports pursuant to 40 CFR 64.9 and Section VI.E of this permit.

b. Monitoring and Record Keeping Requirements

- i. The permittee shall monitor and record the following on an hourly basis, except for opacity, during any operation of the boiler/ESP:
 - A. The secondary kilowatts for each TR set in the ESP system;
 - B. The total power in secondary kilowatts to the ESP system for each hour (add together the power for all the TR sets operating at the time of the reading);
 - C. Load in MW (Gross).
- ii. The Permittee shall continuously monitor the opacity of the stack exhaust with a continuous opacity monitoring system (COMS). Opacity data shall be monitored and recorded continuously with the COMS.
- iii. Quality Assurance and Quality Control (QA/QC):

In addition the permittee shall conduct the following monitoring and record keeping activities:

Section III: Applicable Requirements and Compliance Demonstration

- A. Daily inspections and monitoring of the ESP system to assure proper operation of the system include, testing alarms, making visual inspections of the critical components such as the rappers and particulate removal equipment to assure proper operation.
 - B. Hourly transformer-rectifier electrical readings will be recorded when the system is operating. The operator will check the recorded data, and compare the data with past data under similar operating conditions, looking for changes that signal developing problems in the ESP.
 - C. A weekly inspection of the rapper system, seal air system, and air filter condition will be conducted to assure these components are operating correctly, and the ESP is operating as designed.
 - D. Outage Inspections - The following inspections will be conducted during each outage to assess the operation of the ESP in time. The particulate deposits on the discharge and collecting electrodes will be measured for comparison with past and future inspections. Rapper rod insulators, support bushing insulators, lower stabilizer insulators, gas distribution plates, the hopper trough, ash clinkers, access doors, shell seams, and alignment between collecting plates and discharge electrodes will be inspected to assure that each component is in good condition and operating correctly. All abnormalities or equipment failures will be recorded whether recorded during the outage or not. These records will be useful in identifying possible patterns of repetitive component failures and will be the basis for future outage inspections.
 - E. A semi-annual inspection of the ESP and auxiliaries will be conducted to assess the general overall condition. The inspection will include a visual assessment of the condition of the pipes, guards, wires and plates. Pressure switches and flow switches will be checked for calibration. Alarms associated with rappers, transformer-rectifier controls and other equipment with alarm outputs will be simulated and tested for proper operation. Electrical safety interlocks (Transformer-Rectifier Shutdown) used in the system will be tested for proper operation.
 - F. An annual inspection of the ESP will be conducted to assess the general overall condition. The inspection will include visual assessment of the condition of the pipes, guards, wires and plates. In addition, a Megger meter will be used on the wiring system to check for faults, at which time all readings and results will be recorded.
 - H. In the event the semi-annual and/or annual ESP inspections cannot be conducted on the scheduled date due to plant operations, the permittee shall conduct these inspections with 30 calendar days after the date the unit is released for shutdown by ISO-NE.
- 4. Opacity: Emissions Grouped Unit 1 (GEU1) shall comply with Consent Order No. 1887 at all times.**
- a. Limitation or Restriction
 - i. The Permittee shall operate two opacity continuous CEMS to monitor and record the opacity of visible emissions from EU1 and EU2. [Consent Order No. 1887, Section A.3]
 - ii. The opacity CEMS must be available for no less than 95% of the operating time of the unit being monitored. [Consent Order No. 1887, Section A.4]
 - iii. Opacity shall be less than or equal to:

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- A. twenty percent (20%) during any six-minute block average, or
[RCSA §22a-174-18(b)(2)(A); Consent Order No. 1887, Section A.6.a]
 - B. forty percent (40%) during any one-minute block average.
[RCSA §22a-174-18(b)(2)(B); Consent Order No. 1887, Section A.6.b]
- b. Monitoring and Testing Requirements
- i. The permittee shall operate and maintain installed opacity CEM equipment in accordance with subsections RCSA §22a-174-4(c)(3) and (c)(4).
[RCSA §22a-174-4(b)(1)(B), Consent Order No. 1887: Section A.3]
 - ii. The permittee shall meet the following performance specifications and quality assurance requirements:
 - A. Calibration shall be adjusted whenever the daily zero or upscale calibration exceeds plus/minus two percent (+ 2%) opacity; [RCSA §22a-174-4(c)(4)(B)(i)]
 - B. Data shall be invalid for calculating data availability in accordance with RCSA §22a-174-4(c)(5) if the zero or upscale calibration value exceeds either the reference zero or the upscale calibration value recorded during the most recent clear-path calibration by plus/minus two percent ($\pm 2\%$) opacity for five (5) consecutive days or plus/minus five percent ($\pm 5\%$) opacity on any single day. The period of invalid data begins with either the fifth consecutive occurrence of a drift value exceeding plus/minus two percent ($\pm 2\%$) opacity or with the last daily check preceding the single occurrence of a drift value exceeding plus/minus five percent ($\pm 5\%$) opacity. The period of invalid data shall end when a calibration drift check, conducted after corrective action, demonstrates that reliable monitoring data is being generated, [RCSA §22a-174-4(c)(4)(B)(ii)]
 - C. Quality assurance audits shall be conducted during each calendar quarter in which the source operates, [RCSA §22a-174-4(c)(4)(B)(iii)]
 - D. The commissioner shall be notified, in writing, no fewer than thirty (30) days prior to the initially proposed quality assurance audit, and [RCSA §22a-174-4(c)(4)(B)(iv)]
 - E. Quality assurance audits shall be conducted in accordance with the procedures contained in "Performance Audit Procedures for Opacity Monitors," EPA Document No. 450/4-92/010, dated April 1992. If EPA promulgates quality assurance procedures in 40 CFR 60, Appendix F, quality assurance audits shall be conducted according to such procedures. If either EPA Document No. 450/4-92/010 or subsequently promulgated procedures in 40 CFR 60, Appendix F, as applicable, does not contain audit procedures for the opacity CEM selected by the owner or operator, the owner or operator shall, in writing, propose audit procedures to the commissioner for review and written approval at least thirty (30) days prior to the initial opacity CEM audit;
[RCSA §22a-174-4(c)(4)(B)(v)]
 - iii. The permittee shall ensure that data be available for no less than ninety-five (95%) of the total operating hours of the source in any calendar quarter,
[RCSA §22a-174-4(c)(5)(A)(ii), Consent Order No. 1887: Section A.4]

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- c. Exempted Activities [RCSA §22a-174-18(j)]
- i. The permittee shall not be subject to the visible emissions standards of RCSA §22a-174-18(b)(2) for measurements of opacity using opacity CEM equipment during a period of startup, shutdown or malfunction; commissioner-approved stack testing; or intentional soot blowing, fuel switching or sudden load changing done in accordance with good engineering practices provided that:
[Consent Order No. 1887: Section A.7]
 - A. The permittee is required by permit, order or regulation to install, operate and maintain opacity CEM equipment at such stationary source, and the permittee is in compliance with such permit, order or regulation with regard to such opacity CEM equipment; [RCSA §22a-174-18(j)(1)(A); Consent Order No. 1887: Section A.7.a]
 - B. The owner or operator operates and maintains such installed opacity CEM equipment in compliance with the requirements of 40 CFR 60, Appendices B and F. [Consent Order No. 1887: Section A.7.b]
 - C. The period of exception from the visible emissions standards of RCSA §22a-174-18(b)(2) does not exceed one-half of one percent (0.5%) of the total operating hours of such stationary source during any calendar quarter; and [RCSA §22a-174-18(j)(1)(B); Consent Order No. 1887: Section A.7.c]
 - D. The permittee does not cause or allow visible emissions in excess of sixty percent (60%) opacity during any six-minute block average of the period of exception from the visible emissions standards of RCSA §22a-174-18(b)(2). [RCSA §22a-174-18(j)(1)(C); Consent Order No. 1887: Section A.7.d]
- d. Record Keeping Requirements
- i. The Permittee shall make and keep records of the dates and times of all opacity exceedances including the operating conditions at the time of the exceedance in accordance with Section VI.F of this permit using the CEM. [RCSA 22a-174-4(d)(4); RCSA §22a-174-33(j)(1)(K)(ii)]
 - ii. The Permittee shall make and keep records required to demonstrate compliance with Consent Order 1887. [RCSA §22a-174-4(d)(1); RCSA §22a-174-33(j)(1)(K)(ii)]
- d. Reporting Requirements
- i. Each calendar quarter, the permittee shall submit the following information to the commissioner:
 - A. The data obtained through the opacity CEM equipment during the preceding calendar quarter that is required to determine compliance with an emission limitation or standard; [RCSA §22a-174-4(d)(4)(A), Consent Order No. 1887: Section A.5]
 - B. A summary of such data; [RCSA §22a-174-4(d)(4)(B)]
 - C. A copy of the quality assurance audit conducted for that calendar quarter; and [RCSA §22a-174-4(d)(4)(C)]
 - D. A summary of all corrective actions taken in response to a failed CEM equipment audit. [RCSA §22a-174-4(d)(4)(D)]

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- ii. Submissions made to comply with RCSA §22a-174-4(d)(4) shall be made no later than thirty (30) days following the end of each calendar quarter. [RCSA §22a-174-4(d)(5)]
- iii. The permittee shall notify the Commissioner, in writing, within seven days of the discovery of factors that may or will delay the completion of specific tasks set forth in the approved corrective actions. Such notice shall contain a detailed explanation of the reason(s) for the delay and an amended schedule for the implementation of the remaining tasks. [Consent Order 1887 Section B.5]
- iv. On or before the fifteenth day of the month immediately following the close of each calendar quarter, the permittee shall submit a progress report to the Commissioner describing the actions that the permittee has taken to date to comply with this consent order. Such report shall include, at least, the following: [Consent Order 1887 Section B.6]
 - A. A list of approved corrective actions completed during the quarter.
 - B. A list of any other actions performed during the quarter for the purpose of reducing the frequency of the occurrence of visible emissions that exceed the standards of RCSA Section 22a-174-18(b)(2).

6. SO₂: RCSA §22a-174-19A; STATE ONLY REQUIREMENT

- a. Limitation or Restriction [RCSA §22a-174-19a(e)(1)]
 - i. Combust liquid fuel, gaseous fuel or a combination of each provided that each fuel possess a fuel sulfur limit equal to or less than 0.3% sulfur, by weight (dry basis);
 - ii. Meet an average emission rate of equal to or less than 0.33 pounds SO₂ per MMBtu for each calendar quarter for an affected unit at the premises; or
 - iii. Meet an average emission rate of equal to or less than 0.3 pounds SO₂ per MMBtu calculated for each calendar quarter, if such owner or operator averages the emissions from two or more affected units at the premises.

- b. Monitoring and Testing Requirements [RCSA §22a-174-19a(i)]

The Permittee shall maintain and operate CEM to monitor SO₂ emissions from this source.

- c. Record Keeping Requirements

In accordance with Section VI.F of this permit the Permittee shall make and keep the following records:

- i. The permittee shall obtain a fuel certification from the fuel supplier certifying the type of fuel and the weight percent of sulfur in the fuel (dry basis). [RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. If fuel with sulfur content not exceeding an applicable fuel sulfur limit is the only fuel purchased and combusted by an affected unit, then the owner or operator shall make and keep records that demonstrate the fuel sulfur content of each shipment of fuel received; or [RCSA §22a-174-19a(i)(1)(A)]

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- iii. If fuel with sulfur content above any applicable limit is blended at the premises for combustion in an affected unit or units, the owner or operator shall make and keep daily records demonstrating that all fuel combusted at the affected unit or units meets the applicable fuel sulfur limits of RCSA §22a-174-19a(e)(1). Fuel sulfur analysis shall be conducted in accordance with the American Society for Testing and Material (ASTM) test method D4294 and automatic sampling equipment shall conform to ASTM test method D4177-82. (Copies of ASTM test methods D4294 and D4177-82 may be obtained from the Department of Energy and Environmental Protection, Bureau of Air Management, 79 Elm Street, 5th floor, Hartford, CT 06106-5127; (860) 424-3027). [RCSA §22a-174-19a(i)(1)(B)]
- iv. The permittee shall make and keep records of hourly SO₂ emission rate values, as lbs/MMBtu heat input, determined from data measured by a CEMS in accordance with the applicable provisions of 40 CFR 75 and shall determine the averages consistent with Part 6.a above.

c. Reporting Requirements

- i. The Permittee submit all required reports in accordance with Section VI.E of this permit of this permit
- ii. The permittee shall, as part of any compliance certification pursuant to section 22a-174-33(q)(2) of the Regulations of Connecticut State Agencies, certify in writing to the commissioner compliance with the applicable provisions of this section. Such certification shall include actual quarterly SO₂ emissions in tons and either average quarterly fuel sulfur content or average quarterly emission rate, whichever is applicable, for each affected unit. [RCSA §22a-174-19a(j)(1)]

B. GROUPED EMISSIONS UNIT 2 (GEU2) Two dual fuel fired Foster Wheeler auxiliary steam boilers, Permit Nos. 107-0012 and 107-0013

1. Operational Conditions: [Permits 107-0012, 0013]

a. Limitation or Restriction

All fuel firing rates, hourly limits are per individual boiler and all annual limits are combined limits for EU3 and EU4.

- i. Distillate Fuel Oil
 - A. Maximum Firing Rate: 586 gallons/hr (oil); 88,350 ft³/hour (gas)
 - B. Maximum Fuel Consumption over an Consecutive 12-month period: 1,810,0000 gallons/year (oil); 550,000,000 ft³/year (gas)
 - C. Maximum fuel sulfur content (% by weight, dry basis): 0.05
- ii. Design Specifications
 - A. Maximum Gross Heat Input (MMBtu/hr): 85 (oil); 91 (gas)
 - B. Minimum Exhaust Gas Flow Rate (acfm): 50,300

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C. Minimum Stack Height (ft): 230

D. Minimum Distance to Property Line (ft): 2,640

ii. Maximum annual fuel consumption:

The Permittee shall use the following equation to determine the annual maximum amount of each fuel to be combusted in GEU2:

$$[(5.15E-08 * \text{Fuel}_{\text{gas}}) + (1.45E-05 * \text{Fuel}_{\text{oil}})] \leq 28.3 \text{ TPY of NO}_x$$

Where: Fuel_{gas} = cubic feet of gas combusted in a consecutive 12 month period

Fuel_{oil} = gallons of oil combusted in a consecutive 12 month period
5.15E-08 = gas conversion constant based on 1030 BTU/ft³; 0.1 lbs NO_x/MMBtu; 2000 lbs/ton

1.45E-05 = oil conversion constant based on 145,000 BTU/gallon; 0.2 lbs NO_x/MMBtu, 2000 lbs/ton

b. Monitoring Requirements

i. The permittee shall monitor monthly and annual fuel consumption for each fuel combusted. Annual fuel consumption shall be based on any consecutive twelve (12) month time period and shall be determined by adding the current month's fuel usage to that of the previous eleven (11) months. These calculations shall be made on a monthly basis and made available for inspection by this Bureau upon request. [Permits 107-0012, 0013]

ii. A non-resettable fuel metering device shall be used to continuously monitor fuel use. [Permits 107-0012, 0013; RCSA §22a-174-33(j)(1)(K)(ii)]

iii. Each oil fuel shipment for this equipment shall include a shipping receipt from the fuel supplier and a certification from the fuel supplier certifying the type of fuel in the shipment and the weight percent of sulfur in the fuel. The shipping receipt and/or certification shall include the name of the oil supplier, the sulfur content of the oil and the method used to determine the sulfur content of the oil. Each shipping receipt and certification shall be kept on site and available for inspection by the Bureau upon request. [Permits 107-0012, 0013]

c. Record Keeping Requirements

i. In accordance with Section VI.F of this permit the permittee shall make and keep records of monthly and consecutive 12 month fuel consumption for each fuel combusted. The consecutive 12 month fuel consumption shall be determined by adding the current month's fuel usage (for each fuel) to that of the previous 11 months. The permittee shall make these calculations within 30 days of the end of the previous month. [RCSA §22a-174-33(j)(1)(K)(ii)]

ii. The permittee shall maintain documentation demonstrating compliance with the design specifications in B.1.a.ii above.

d. Reporting Requirements

The permittee shall submit all required reports in accordance with Section VI.E of this permit

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2. Pollutant or Process Parameter

- a. Limitation or Restriction [Permits 107-0012, 0013]

Note: The lb/hr and lbs/MMBtu limits are for each boiler.

- i. Natural Gas Firing

	<u>lbs/hr</u>	<u>lbs/MMBtu</u>
TSP	0.455	0.005
NO _x	9.1	0.10
SO _x	0.055	0.0006
VOC	0.51	0.0056
CO	3.095	0.034

- ii. Oil Firing

	<u>lbs/hr</u>	<u>lbs/MMBtu</u>
TSP	1.190	0.014
PM-10	0.595	0.007
NO _x	17.0	0.20
SO _x	4.675	0.055
VOC	0.085	0.001
CO	2.89	0.034
Lead	7.03E-04	8.27E-06
H ₂ SO ₄	0.085	0.001

- ii. Maximum Worst Case

Note: Annual emission limits are combined limits for EU3 & EU4.

	<u>Tons/yr</u>
TSP	3.69
PM-10	2.83
NO _x	28.3
SO _x	14.9
VOC	3.17
CO	19.24
Lead	0.005
H ₂ SO ₄	0.263

- b. Monitoring Requirements

The permittee shall conduct NO_x emission tests of GEU2 at least once every five years.
[RCSA §22a-174-22(k)(1)]

- c. Record Keeping Requirements

In accordance with Section VI.F of this permit the permittee shall make and keep records sufficient to show compliance with the following:

- i. Monthly and annual emissions in units of tons for TSP, PM-10, NO_x, SO_x, VOC, CO and lead based on fuel use, the most recent stack test data, AP-42, manufacturer's data or other appropriate

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emissions factor. The consecutive 12 month emission shall be determined by adding the current month's emissions to that of the previous 11 months. The permittee shall make these calculations within 30 days of the end of the previous month. [RSCA 22a-174-33(j)(1)(K)(ii)]

- ii. Calculation method to show compliance with the pound/hr and lb/MMBtu emissions limits in 2.a above. Such records shall include a sample calculation for each pollutant emissions.

d. Reporting Requirements

- i. The permittee shall submit a written report to the commissioner of any testing results within thirty (30) days of the completion of such test. [RCSA 22a-174-22(1)(2); RSCA 22a-174-33(j)(1)(K)(ii)]
- ii. The Permittee shall submit all required reports in accordance with Section VI.E of this permit. [RSCA 22a-174-33(j)(1)(K)(ii)]

3. Opacity

a. Limitations or Restrictions

Visible emissions shall not exceed:

- i. 20% opacity during any six-minute block average, except during startup, shutdown, or malfunction, as measured by 40 CFR 60, Appendix A, Reference Method 9; or [Permits 107, 0012, 0013; RCSA 22a-174-18(b)(1)(A)]
- ii. greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity; and (40 CFR 60.43c(c))

b. Monitoring and Testing Requirements [RCSA 22a-174-33(j)(1)(K)(ii)]

The Permittee shall conduct opacity testing on a recurring basis as described in 40 CFR 60.47c.

c. Record Keeping Requirements

- i. In accordance with Section VI.F of this permit the permittee shall maintain records of the dates and times of all opacity testing including:
 - A. the operating conditions at the time of the exceedance; [RCSA 22a-174-33(j)(1)(K)(ii)]
 - B. dates and time intervals of all opacity observations periods; [40 CFR 60.48c(c)(1)(i)]
 - C. name, affiliation, and copy of current visible emission reading certification for each visible emission observer participating in the performance test; and [40 CFR 60.48c(c)(1)(ii)]
 - D. copies of all visible emission observer opacity field data sheets [40 CFR 60.48c(c)(1)(iii)]

d. Reporting Requirements

- i. The Permittee shall submit reports of opacity exceedances in accordance with Section VII of this permit and 40 CFR 60.48c.

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- ii. The Permittee shall submit reports in accordance with the requirements of Section VI.E of this permit, 40 CFR 60.7 and 40 CFR 60.48c.

4. NSPS 40 CFR Part 60 Subpart Dc

The Permittee shall comply with the New Source Performance Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units at all times.

C. GROUPED EMISSIONS UNIT 3 (GEU3) Two 2.75 MW diesel fired generators. [Registration Nos. 107-0021 & 107-0022; 40 CFR Part 63 Subpart ZZZZ] (RICE MACT Designation: Non-Emergency, Existing CI, > 500 bhp, Constructed before 12/19/2002) (Compliance Date: 05/03/2013)

1. Operational Conditions

a. Limitation or Restriction

All fuel firing rates, hourly limits are per individual engine and all annual limits are combined limits for EU5 and EU6.

- i. Distillate Fuel Oil [Collateral Condition in Permits 107-0012, -0013]

A. Maximum Fuel Consumption over an Consecutive 12-month period: 80,000 gallons/year

B. Maximum fuel sulfur content: 0.05% by weight, dry basis

Note: Upon the compliance date for 40 CFR Part 63 Subpart ZZZZ, GEU3 will have a maximum fuel sulfur content of 0.0015% by weight, dry basis. [40 CFR 63.6604; 40 CFR 80.510(b)]

b. Monitoring Requirements

- i. The permittee shall monitor monthly and annual fuel consumption for each fuel combusted. Annual fuel consumption shall be based on any consecutive twelve (12) month time period and shall be determined by adding the current month's fuel usage to that of the previous eleven (11) months. These calculations shall be made on a monthly basis and made available for inspection by this Bureau upon request. [Collateral Condition in Permits 107-0012, -0013]
- ii. A non-resettable fuel metering device shall be used to continuously monitor fuel use. [Collateral Condition in Permits 107-0012, -0013; RCSA 22a-174-33(j)(1)(K)(ii)]
- iii. Each oil fuel shipment for this equipment shall include a shipping receipt from the fuel supplier and a certification from the fuel supplier certifying the type of fuel in the shipment and the weight percent of sulfur in the fuel. The shipping receipt and/or certification shall include the name of the oil supplier, the sulfur content of the oil and the method used to determine the sulfur content of the oil. Each shipping receipt and certification shall be kept on site and available for inspection by the Bureau upon request. [Collateral Condition in Permits 107-0012, -0013]

c. Record Keeping Requirements

In accordance with Section VI.F of this permit the permittee shall keep records of monthly and consecutive 12 month fuel consumption for each fuel combusted. The consecutive 12 month fuel

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consumption shall be determined by adding the current month's fuel usage (for each fuel) to that of the previous 11 months. The permittee shall make these calculations within 30 days of the end of the previous month. [RCSA §22a-174-33(j)(1)(K)(ii)]

d. Reporting Requirements

The permittee shall submit all required reports in accordance with Section VI.E of this permit

2. Pollutant or Process Parameter

a. Limitation or Restriction

Note: The lb/hr and lbs/MMBtu limits are apply to each engine and the annual limits are combined limits for EU5 and EU6.

i. Allowable Emissions

	<u>lbs/hr</u>	<u>lbs/MMBtu</u>	<u>tons/yr</u>
TSP	6.69	0.231	1.340
PM-10	5.44	0.188	1.089
NO _x	75.69	2.610	15.138
SO _x	1.595	0.055	0.319
VOC	6.409	0.221	1.282
CO	20.387	0.703	4.077
H ₂ SO ₄	0.029	0.001	0.0058

b. Monitoring Requirements

The permittee shall conduct NO_x emission testing for GEU2 at least once every five years. [RCSA §22a-174-22(k)(1)]

c. Record Keeping Requirements

In accordance with Section VI.F of this permit the permittee shall make and keep records sufficient to show compliance with the following:

- i. Monthly and annual emissions in units of tons for TSP, PM-10, NO_x, SO_x, VOC, CO, and lead based on fuel use, the most recent stack test data, AP-42, manufacturer's data or other appropriate emissions factor. The consecutive 12 month emission shall be determined by adding the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant emissions. The permittee shall make these calculations within 30 days of the end of the previous month. [RCSA 22a-174-33(j)(1)(K)(ii)]
- ii. Calculation method to show compliance with the pound/hr and lb/MMBtu emissions limits in Section C.2.a.i above. Such records shall include a sample calculation for each pollutant emissions.

d. Reporting Requirements

- i. The permittee shall submit a written report to the commissioner of any testing results within thirty (30) days of the completion of such test. [RCSA 22a-174-22(1)(2); RSCA 22a-174-33(j)(1)(K)(ii)]

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ii. The Permittee shall submit all required reports in accordance with Section VI.E of this permit.

3. NO_x RACT COMPLIANCE: Grouped Emissions Unit 3 (GEU3) shall comply with Trading Agreement and Order No. 8315 at all times.

a. Limitation or Restriction

NO_x emissions shall not exceed the Full Load Emission Rates (FLER) in Table 3 of Trading Agreement and Order No. 8315.

b. Maintenance and Tune-up

Not more than 2 years from the date of issuance of Trading Agreement and Order No. 8315, the Permittee shall perform maintenance and inspection of each emission. Such maintenance and inspection shall include, but not be limited to, the following:

- i. Inspect the combustion system, and clean or replace any components of the combustion system as necessary, in accordance with manufacturer's specification or current good engineering practice;
- ii. Inspect the system controlling the air-to-fuel ratio, and ensure that it is calibrated and functioning in accordance with the manufacturer's specifications or current good engineering practice;
- iii. Measure the operating parameters of the emission unit used to determine that the emission unit is operating in accordance with manufacturer's specification or current good engineering practice prior to and after any adjustments are made during maintenance, tune-up, or inspection activity; and
- iv. Make and keep records including, but not limited to, the following:
 - A. Demonstration that any maintenance, tune-up, and/or inspection activity performed on the emission units been performed in accordance with the manufacturer's specifications or current good engineering practice,
 - B. The date and a description of any maintenance, tune-up, and/or inspection activity performed on the emission units described,
 - C. The name, title and affiliation of the person conducting any maintenance, tune-up, and/or inspection activity performed on the emission units,
 - D. The operating parameters of the emission unit used to determine that the emission unit is operating in accordance with manufacturer's specification or current good engineering practice prior to and after any adjustments are made during maintenance, tune-up, or inspection activity performed in accordance with Paragraph B.17 of Trading Agreement and Order No. 8315.

c. Record Keeping

- i. By the close of each calendar day, the Permittee shall record the actual fuel type and the actual quantity of each type of fuel in units of volume per day or MMBtu per day for each fuel used the preceding day,
- ii. By the close of each calendar day, the Permittee shall record the actual fuel type and the actual quantity of each type of fuel in units of volume per day or MMBtu per day for each fuel used

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the preceding day,

- iii. On or before the first day of each calendar month, the Permittee shall record the number of DERCs and corresponding serial numbers and vintages for all DERCs in its possession on the first calendar day of that calendar month,
 - iv. On or before the first day of each calendar month, the Permittee shall record the number of Allowances and corresponding identification numbers and allocation control periods for all Allowances in its possession on the first calendar day of that calendar month
 - v. On or before the first day of each calendar month, the Permittee shall record the number of DERCs and corresponding serial numbers, vintages, purchase/sales dates, and seller/buyer for all DERCs purchased or sold during the preceding calendar month,
 - vi. On or before the first day of each calendar month, the Permittee shall record the number of Allowances and corresponding identification numbers, purchase/sales dates, allocation years, and seller/buyer for all Allowances purchased or sold during the preceding calendar month,
 - vii. On or before the first day of each calendar month, the Permittee shall record the Estimated DERCs/Allowances Required for that calendar month.
 - viii. On or before the twentieth calendar day of each calendar month, the Permittee shall record the Actual DERCs/Allowances Required for the preceding calendar month.
 - ix. On or before January 31 of each calendar year, the Permittee shall record the quantity of DERCs deducted for the preceding year. Such records shall include the serial number and vintage of each DERC deducted from the Permittee' current balance.
 - x. On or before January 31 of each calendar year, the Permittee shall record the quantity of Allowances transferred. Such records shall include the identification number and allocation control period of each Allowance transferred.
 - xi. Not more than ninety (90) days after the completion of each Non-Ozone Season, the Permittee shall record the Non-Ozone Season average NOx emission rate, the quantity of DERCs and/or allowances possessed on the first day of the Non-Ozone Season, and the quantity of DERCs deducted and/or Allowances transferred.
 - xii. For each month of the Ozone season, the Permittee shall maintain records attesting to the fact that any DERCs deducted from its balance satisfy the requirements of Trading Agreement and Order No. 8315. Generator certification of this fact shall be sufficient.
 - xiii. On each day during the ozone season that the Permittee operate, the Permittee shall make and keep Records of all emission unit operation, including copies of any written correspondence from the Permittee' fuel supplier detailing the duration and circumstances of the inadequate fuel oil supply or interruption of gaseous fuel supply to the emission units.
- d. Reporting

No later than March 1 of every year after issuance of Trading Agreement and Order No. 8315, the Permittee shall submit to the Commissioner a written report containing copies of all of the records required pursuant to this Trading Agreement and Order. Not later than July 30 of each calendar year, the Respondents shall submit a written report containing copies of all records required pursuant to this Trading Agreement and Order. The Commissioner may prescribe the forms to be used for the submission of these reports. The Permittee shall submit these reports on such forms, if prescribed by the

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Commissioner.

- D. EMISSIONS UNIT 7 (EU7) Cummins diesel fired emergency fire pump. [RSCA 22a-174-3b(e); 40 CFR Part 63 Subpart ZZZZ]
(RICE MACT Designation: Emergency, Existing CI, ≤ 500 bhp, Constructed before 06/12/06)
(Compliance Date: 05/03/2013)**

1. Operational Conditions

a. Limitation or Restriction

- i. Operation shall not exceed 300 hours during any twelve (12) month rolling aggregate; and
- ii. Operation of the engine for readiness testing and maintenance checks shall not exceed 100 hours per year. [40 CFR 63.6640(f)(ii)]
- iii. Operation of the engine in non-emergency situations as defined in 40 CFR Part 63 Subpart ZZZZ shall be in accordance with 40 CFR 63.6640(f)(iii).
- iv. Any nongaseous fuel consumed shall not exceed the sulfur content of motor vehicle diesel fuel as defined in RSCA 22a-174-42.
- v. The permittee shall be in compliance with the operating limitations pursuant to 40 CFR Part 63 Subpart ZZZZ at all times. [40 CFR 63.6605(a)]
- vi. At all times the permittee must operate and maintain the affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.6605(b)]
- vii. The permittee shall operate and maintain EU7 according to the manufacturer's emission related written instructions or develop you own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 63.6625(e)(2)]
- viii. The permittee shall install a non-resettable hour meter. [40CFR 63.6625(f)]
- ix. The permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable in 40 CFR 60 Subpart ZZZZ, Table 2c apply to all other than startup. [40 CFR 63.6625(h)]
- x. The permittee shall change the oil and filter every 500 hours of operation or annually, whichever comes first. [40 CFR Part 63 Subpart ZZZZ, Table 2c]
- xi. The permittee shall inspect air cleaner every 1,000 hours of operation or annually, whichever comes first. [40 CFR Part 63 Subpart ZZZZ, Table 2c]

Section III: Applicable Requirements and Compliance Demonstration

- xii. The permittee shall inspect all hoses and belts every 500 hours of operation or annually, whichever comes first. [**40 CFR Part 63 Subpart ZZZZ, Table 2c**]

- b. Monitoring and Testing Requirements [RSCA 22a-174-3b(e)(4); **40CFR 63.6655(f)**; RSCA 22a-174-33(j)(1)(K)(ii)]
 - i. The permittee shall monitor the hours of operation during readiness testing, maintenance checks, non-emergency use and periods of startup for each month and each twelve (12) month rolling aggregate.

 - ii. Each oil fuel shipment for this equipment shall include a shipping receipt from the fuel supplier and a certification from the fuel supplier certifying the type of fuel in the shipment and the weight percent of sulfur in the fuel. The shipping receipt and/or certification shall include the name of the oil supplier, the sulfur content of the oil and the method used to determine the sulfur content of the oil. Each shipping receipt and certification shall be kept on site and available for inspection by the Bureau upon request. [RSCA 22a-174-33(j)(1)(K)(ii)]

- c. Record Keeping Requirements [RSCA 22a-174-3b(e)(4); RSCA 22a-174-33(j)(1)(K)(ii)]
 - i. The permittee shall make and keep records of all hours of operation including and designating hours of readiness testing, maintenance checks, non-emergency use and periods of startup for each month and each twelve (12) month rolling aggregate. [**40 CFR 63.6655(f)**]

 - ii. The permittee shall keep records of each oil fuel shipment for this equipment shall include a shipping receipt from the fuel supplier and a certification from the fuel supplier certifying the type of fuel in the shipment and the weight percent of sulfur in the fuel. The shipping receipt and/or certification shall include the name of the oil supplier, the sulfur content of the oil and the method used to determine the sulfur content of the oil. [RSCA 22a-174-33(j)(1)(K)(ii)]

 - iii. The permittee shall make and keep records of all required maintenance performed. [RSCA 22a-174-33(j)(1)(K)(ii); **40 CFR 63.6655(e)**]

- d. Reporting Requirements
 - i. If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required in Table 2c of Subpart ZZZZ of Part 63, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. Sources must report any failure to perform the work practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable. [**Footnote 1: 40 CFR 63 Subpart ZZZZ, Table 2c**]

 - ii. The permittee shall submit all required reports in accordance with Section VI.E of this permit

Section III: Applicable Requirements and Compliance Demonstration

E. FEDERAL ACID RAIN PERMIT REQUIREMENTS FOR GEU1.

Federal Acid Rain Permit Requirements

1. SO₂ Allowance Allocations and NO_x Requirements for Each Affected Unit

- a. Affected Unit 1: Combustion Engineering, Type R Dual fuel fired 995 MMBtu/hr, 82 MW electric utility steam boiler

		2013	2014	2015	2016	2017
EU-1	SO ₂ Allowances under Tables 2,3,or 4 of 40 CFR Part 73	1,208	1,208	1,208	1,208	1,208
NO _x Limit		Not an Affected Unit under 40 CFR Part 76				

- b. Affected Unit 2: Combustion Engineering, Type RRP No.6 oil fired 4,658 MMBtu/hr, 402 MW electric utility steam boiler,

		2013	2014	2015	2016	2017
EU-2	SO ₂ Allowances under Tables 2,3,or 4 of 40 CFR Part 73	5,675	5,675	5,675	5,675	5,675
NO _x Limit		Not an Affected Unit under 40 CFR Part 76				

2. Phase II Acid Rain Permit Application

The attached Phase II Acid Rain Permit Application is hereby incorporated by reference into this Title V Operating Permit. If this Title V Operating Permit is in conflict with or inconsistent with the Phase II Acid Rain Permit Application, the Title V Operating Permit requirements, including any applicable requirement under 40 CFR Parts 72 through 78, inclusive, shall supersede the Phase II Acid Rain Permit Application and the Permittee shall be governed by and adhere to this Title V Operating Permit and any applicable requirement under 40 CFR Parts 72 through 78, inclusive.

Section III: Applicable Requirements and Compliance Demonstration

F. PREMISES-WIDE GENERAL REQUIREMENTS

Premises-Wide General Requirements

1. Annual Emission Statements : The Permittee shall submit annual emission statements requested by the commissioner as set forth in RCSA §22a-174-4(d)(1).
2. Emergency Episode Procedures: The Permittee shall comply with the procedures for emergency episodes as set forth in RCSA §22a-174-6.
3. Reporting of Malfunctioning Control Equipment: The Permittee shall comply with the reporting requirements of malfunctioning control equipment as set forth in RCSA §22a-174-7.
4. Prohibition of Air Pollution: The Permittee shall comply with the requirement to prevent air pollution as set forth in RCSA §22a-174-9.
5. Public Availability of Information: The public availability of information shall apply, as set forth in RCSA §22a-174-10.
6. Prohibition Against Concealment/ Circumvention: The Permittee shall comply with the prohibition against concealment or circumvention as set forth in RCSA §22a-174-11.
7. Violations and Enforcement: The Permittee shall not violate or cause the violation of any applicable regulation as set forth in RCSA §22a-174-12.
8. Variances: The Permittee may apply to the commissioner for a variance from one or more of the provisions of these regulations as set forth in RCSA §22a-174-13.
9. No Defense to Nuisance Claim: The Permittee shall comply with the regulations as set forth in RCSA §22a-174-14.
10. Severability: The Permittee shall comply with the severability requirements as set forth in RCSA §22a-174-15.
11. Responsibility to Comply: The Permittee shall be responsible to comply with the applicable regulations as set forth in RCSA §22a-174-16.
12. Particulate Emissions: The Permittee shall comply with the standards for control of particulate matter and visible emissions as set forth in RCSA §22a-174-18. (Section 18 approved by EPA on 9-23-1982, current Regulation submitted to EPA on 12-1-2004.)
13. Sulfur Compound Emissions: The Permittee shall comply with the requirements for control of sulfur compound emissions as set forth in RCSA §22a-174-19.
14. Organic Compound Emissions: The Permittee shall comply with the requirements for control of organic compound emissions as set forth in RCSA §22a-174-20.
15. Nitrogen Oxide Emissions: The Permittee shall comply with the requirements for control of nitrogen oxide emissions as set forth in RCSA §22a-174-22.

Section III: Applicable Requirements and Compliance Demonstration

16. **Ambient Air Quality:** The Permittee shall not cause or contribute to a violation of an ambient air quality standard as set forth in RCSA §22a-174-24(b).
17. **Emission Fees:** The Permittee shall pay an emission fee as set forth in RCSA §22a-174-26(d).
18. **Fuel Oil Blending:** RCSA 22a-174-19
The permittee may receive, store, and blend fuel oil with greater than one percent (1%) sulfur by dry weight in its non-operating, non-day tanks which are filled for daily burn and not for primary storage, at the site, provided that the permittee complies with the following conditions:
 - i. The permittee shall maintain records of the volume and sulfur content by dry weight of any and all fuel transfers into, out of, and between tanks;
 - ii. The permittee shall inform the DEEP in writing at least three (3) days prior to transferring fuel with greater than one percent (1%) sulfur dry weight from the facility to site(s) outside of Connecticut and shall specify the volume, percent (%) sulfur content by dry weight, and destination(s) of the fuel transferred;
 - iii. The permittee shall not dispense, under any circumstances, any fuel with greater than one percent (1%) sulfur content by dry weight or any non-conforming fuel from any tank for distribution to a fuel user in Connecticut. Any fuel with greater than one percent (1%) sulfur dry weight at any facility shall only be transferred to sites outside of Connecticut, and never transferred to site(s) in Connecticut; and
 - iv. The permittee shall designate one operating tank on the premises at all times to store fuel with one percent (1%) sulfur by dry weight or less to supply its own generating units. Such operating tank(s) may be designated as any of the non-day tanks to allow for routine maintenance or repairs.
 - v. Failure to maintain such records or failure to inform the DEEP of all transfers may result in the DEEP's revocation of approval.

Section IV: Compliance Schedule

COMPLIANCE SCHEDULE				
Emissions units	Applicable regulations	Steps required for achieving compliance (Milestones)	Date by which each step is to be completed	Dates for monitoring, record keeping, and reporting
GEU1	40 CFR Part 63 Subpart UUUUU	The Permittee will comply with this rule by the compliance deadline.	04/16/2015	04/16/2015
GEU2	40 CFR Part 63 Subpart DDDDD	Rule is not final at this time.	Unknown	Unknown
GEU3	40 CFR Part 63 Subpart ZZZZ	See specific requirements in Section III.C	05/03/2013	05/13/2013
EU7	40 CFR Part 63 Subpart ZZZZ	See specific requirements in Section III.D	05/03/2013	05/03/2013

Section V: State Enforceable Terms and Conditions

Only the Commissioner of the Department of Energy and Environmental Protection has the authority to enforce the terms, conditions and limitations contained in this section.

State Enforceable Terms and Conditions

- A.** This Title V permit does not relieve the Permittee of the responsibility to conduct, maintain and operate the emissions units in compliance with all applicable requirements of any other Bureau of the Department of Energy and Environmental Protection or any federal, local or other state agency. Nothing in this Title V permit shall relieve the Permittee of other obligations under applicable federal, state and local law.
- B.** Nothing in this Title V permit shall affect the commissioner's authority to institute any proceeding or take any other action to prevent or abate violations of law, prevent or abate pollution, investigate air pollution, recover costs and natural resource damages, and to impose penalties for violations of law, including but not limited to violations of this or any other permit issued to the Permittee by the commissioner.
- C.** Odors: The Permittee shall not cause or permit the emission of any substance or combination of substances which creates or contributes to an odor that constitutes a nuisance beyond the property boundary of the premises as set forth in RCSA §22a-174-23.
- D.** Noise: The Permittee shall operate in compliance with the regulations for the control of noise as set forth in RCSA §§22a-69-1 through 22a-69-7.4, inclusive.
- E.** Hazardous Air Pollutants (HAPs): The Permittee shall operate in compliance with the regulations for the control of HAPs as set forth in RCSA §22a-174-29.
- F.** Open Burning: The Permittee is prohibited from conducting open burning, except as may be allowed by CGS §22a-174(f).
- G.** Fuel Sulfur Content: The Permittee shall not use No.2 heating oil that exceeds three-tenths of one percent sulfur by weight as set forth in CGS §16a-21a.
- H.** The Permittee shall comply with the requirements for Control of Sulfur Dioxide Emissions from Power Plants and other large stationary sources of air pollution as set forth in RCSA §22a-174-19a.
- I.** The Permittee shall comply with the requirements for Control of Carbon Dioxide Emissions as set forth in RCSA §22a-174-31.

Section VI: Title V Requirements

The Administrator of the United States Environmental Protection Agency and the Commissioner of the Department of Energy and Environmental Protection have the authority to enforce the terms and conditions contained in these sections.

Title V Requirements

A. SUBMITTALS TO THE COMMISSIONER & ADMINISTRATOR

The date of submission to the commissioner of any document required by this Title V permit shall be the date such document is received by the commissioner. The date of any notice by the commissioner under this Title V permit, including, but not limited to notice of approval or disapproval of any document or other action, shall be the date such notice is delivered or the date three days after it is mailed by the commissioner, whichever is earlier. Except as otherwise specified in this Title V permit, the word "day" means calendar day. Any document or action which is required by this Title V permit to be submitted or performed by a date which falls on a Saturday, Sunday or legal holiday shall be submitted or performed by the next business day thereafter.

Any document required to be submitted to the commissioner under this Title V permit shall, unless otherwise specified in writing by the commissioner, be directed to: Office of the Director; Engineering & Enforcement Division; Bureau of Air Management; Department of Energy and Environmental Protection; 79 Elm Street, 5th Floor; Hartford, Connecticut 06106-5127.

Any submittal to the Administrator of the Environmental Protection Agency shall be in a computer-readable format and addressed to: Director, Air Compliance Program; Attn: Air Compliance Clerk; Office of Environmental Stewardship; EPA-New England, Region 1; 5 Post Office Square, Suite 100; Boston, Massachusetts 02109-3912.

B. CERTIFICATIONS [RCSA §22a-174-33(b)]

In accordance with RCSA §22a-174-33(b), any report or other document required by this Title V permit and any other information submitted to the commissioner or Administrator shall be signed by an individual described in RCSA §22a-174-2a(a), or by a duly authorized representative of such individual. Any individual signing any document pursuant to RCSA §22a-174-33(b) shall examine and be familiar with the information submitted in the document and all attachments thereto, and shall make inquiry of those individuals responsible for obtaining the information to determine that the information is true, accurate, and complete, and shall also sign the following certification as provided in RCSA §22a-174-2a(a)(4):

“I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that any false statement made in the submitted information may be punishable as a criminal offense under Section 22a-175 of the Connecticut General Statutes, under Section 53a-157b of the Connecticut General Statutes, and in accordance with any applicable statute.”

C. SIGNATORY RESPONSIBILITY [RCSA §22a-174-2a(a)]

For purposes of signing any Title V-related application, document, report or certification required by RCSA §22a-174-33, any corporation's duly authorized representative may be either a named individual or any individual occupying a named position. Such named individual or individual occupying a named position is a duly authorized representative if such individual is responsible for the overall operation of one or more manufacturing, production or operating facilities subject to RCSA §22a-174-33 and either:

Section VI: Title V Requirements

Title V Requirements

1. The facilities employ more than 250 persons or have gross annual sales or expenditures exceeding 25 million dollars in second quarter 1980 dollars; or
2. The delegation of authority to the duly authorized representative has been given in writing by an officer of the corporation in accordance with corporate procedures and the following:
 - i. Such written authorization specifically authorizes a named individual, or a named position, having responsibility for the overall operation of the Title V premises or activity,
 - ii. Such written authorization is submitted to the commissioner and has been approved by the commissioner in advance of such delegation. Such approval does not constitute approval of corporate procedures, and
 - iii. If a duly authorized representative is a named individual in an authorization submitted under subclause ii. of this subparagraph and a different individual is assigned or has assumed the responsibilities of the duly authorized representative, or, if a duly authorized representative is a named position in an authorization submitted under subclause ii. of this subparagraph and a different named position is assigned or has assumed the duties of the duly authorized representative, a new written authorization shall be submitted to the commissioner prior to or together with the submission of any application, document, report or certification signed by such representative.

D. ADDITIONAL INFORMATION [RCSA §22a-174-33(j)(1)(X), RCSA §22a-174-33(h)(2)]

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier, including information to determine whether cause exists for modifying, revoking, reopening, reissuing, or suspending this Title V permit or to determine compliance with this Title V permit.

In addition, the Permittee shall submit information to address any requirements that become applicable to the subject source and shall submit correct, complete, and sufficient information within 15 days of the applicant's becoming aware of any incorrect, incomplete, or insufficient submittal, during the pendency of the application, or any time thereafter, with an explanation for such deficiency and a certification pursuant to RCSA Section 22a-174-2a(a)(5).

E. MONITORING REPORTS [RCSA §22a-174-33(o)(1)]

A Permittee, required to perform monitoring pursuant this Title V permit, shall submit to the commissioner, on forms prescribed by the commissioner, written monitoring reports on March 1 and September 1 of each year or on a more frequent schedule if specified in such permit. Such monitoring reports shall include the date and description of each deviation from a permit requirement including, but not limited to:

1. Each deviation caused by upset or control equipment deficiencies; and
2. Each deviation of a permit requirement that has been monitored by the monitoring systems required under this permit, which has occurred since the date of the last monitoring report; and
3. Each deviation caused by a failure of the monitoring system to provide reliable data.

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F. PREMISES RECORDS [RCSA §22a-174-33(o)(2)]

Unless otherwise required by this Title V permit, the Permittee shall make and keep records of all required monitoring data and supporting information for at least five years from the date such data and information were obtained. The Permittee shall make such records available for inspection at the site of the subject source, and shall submit such records to the commissioner upon request. The following information, in addition to required monitoring data, shall be recorded for each permitted source:

1. The type of monitoring or records used to obtain such data, including record keeping;
2. The date, place, and time of sampling or measurement;
3. The name of the individual who performed the sampling or the measurement and the name of such individual's employer;
4. The date(s) on which analyses of such samples or measurements were performed;
5. The name and address of the entity that performed the analyses;
6. The analytical techniques or methods used for such analyses;
7. The results of such analyses;
8. The operating conditions at the subject source at the time of such sampling or measurement; and
9. All calibration and maintenance records relating to the instrumentation used in such sampling or measurements, all original strip-chart recordings or computer printouts generated by continuous monitoring instrumentation, and copies of all reports required by the subject permit.

G. PROGRESS REPORTS [RCSA §22a-174-33(q)(1)]

The Permittee shall, on March 1 and September 1 of each year, or on a more frequent schedule if specified in this Title V permit, submit to the commissioner a progress report on forms prescribed by the commissioner, and certified in accordance with RCSA §22a-174-2a(a)(5). Such report shall describe the Permittee's progress in achieving compliance under the compliance plan schedule contained in this Title V permit. Such progress report shall:

1. Identify those obligations under the compliance plan schedule in this Title V permit which the Permittee has met, and the dates on which they were met; and
2. Identify those obligations under the compliance plan schedule in this Title V permit which the Permittee has not timely met, explain why they were not timely met, describe all measures taken or to be taken to meet them and identify the date by which the Permittee expects to meet them.

Any progress report prepared and submitted pursuant to RCSA §22a-174-33(q)(1) shall be simultaneously submitted by the Permittee to the Administrator.

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H. COMPLIANCE CERTIFICATIONS [RCSA §22a-174-33(q)(2)]

The Permittee shall, on March 1 of each year, or on a more frequent schedule if specified in this Title V permit, submit to the commissioner a written compliance certification certified in accordance with RCSA §22a-174-2a(a)(5) and which includes the information identified in 40 CFR 70.6(c)(5)(iii)(A) to (C), inclusive.

Any compliance certification prepared and submitted pursuant to RCSA §22a-174-33(q)(2) shall be simultaneously submitted by the Permittee to the Administrator.

I. PERMIT DEVIATION NOTIFICATIONS [RCSA §22a-174-33(p)]

Notwithstanding Subsection D of Section VII of this Title V permit, the Permittee shall notify the commissioner in writing, on forms prescribed by the commissioner, of any deviation from an emissions limitation, and shall identify the cause or likely cause of such deviation, all corrective actions and preventive measures taken with respect thereto, and the dates of such actions and measures as follows:

1. For any hazardous air pollutant, no later than 24 hours after such deviation commenced; and
2. For any other regulated air pollutant, no later than ten days after such deviation commenced.

J. PERMIT RENEWAL [RCSA §22a-174-33(j)(1)(B)]

All of the terms and conditions of this Title V permit shall remain in effect until the renewal permit is issued or denied provided that a timely renewal application is filed in accordance with RCSA §§22a-174-33(g), -33(h), and -33(i).

K. OPERATE IN COMPLIANCE [RCSA §22a-174-33(j)(1)(C)]

The Permittee shall operate the source in compliance with the terms of all applicable regulations, the terms of this Title V permit, and any other applicable provisions of law. In addition, any noncompliance constitutes a violation of the Clean Air Act and Chapter 446c of the Connecticut General Statutes and is grounds for federal and/or state enforcement action, permit termination, revocation and reissuance, or modification, and denial of a permit renewal application.

L. COMPLIANCE WITH PERMIT [RCSA §22a-174-33(j)(1)(G)]

This Title V permit shall not be deemed to:

1. Preclude the creation or use of emission reduction credits or allowances or the trading thereof in accordance with RCSA §§22a-174-33(j)(1)(I) and 22a-174-33(j)(1)(P), provided that the commissioner's prior written approval of the creation, use, or trading is obtained;
2. Authorize emissions of an air pollutant so as to exceed levels prohibited pursuant to 40 CFR Part 72;
3. Authorize the use of allowances pursuant to 40 CFR Parts 72 through 78, inclusive, as a defense to noncompliance with any other applicable requirement; or
4. Impose limits on emissions from items or activities specified in RCSA §§22a-174-33(g)(3)(A) and (B) unless imposition of such limits is required by an applicable requirement.

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M. INSPECTION TO DETERMINE COMPLIANCE [RCSA §22a-174-33(j)(1)(M)]

The commissioner may, for the purpose of determining compliance with this Title V permit and other applicable requirements, enter the premises at reasonable times to inspect any facilities, equipment, practices, or operations regulated or required under such permit; to sample or otherwise monitor substances or parameters; and to review and copy relevant records lawfully required to be maintained at such premises in accordance with this Title V permit. It shall be grounds for permit revocation should entry, inspection, sampling, or monitoring be denied or effectively denied, or if access to and the copying of relevant records is denied or effectively denied.

N. PERMIT AVAILABILITY

The Permittee shall have available at the facility at all times a copy of this Title V permit.

O. SEVERABILITY CLAUSE [RCSA §22a-174-33(j)(1)(R)]

The provisions of this Title V permit are severable. If any provision of this Title V permit or the application of any provision of this Title V permit to any circumstance is held invalid, the remainder of this Title V permit and the application of such provision to other circumstances shall not be affected.

P. NEED TO HALT OR REDUCE ACTIVITY [RCSA §22a-174-33(j)(1)(T)]

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Title V permit.

Q. PERMIT REQUIREMENTS [RCSA §22a-174-33(j)(1)(V)]

The filing of an application or of a notification of planned changes or anticipated noncompliance does not stay the Permittee's obligation to comply with this Title V permit.

R. PROPERTY RIGHTS [RCSA §22a-174-33(j)(1)(W)]

This Title V permit does not convey any property rights or any exclusive privileges. This Title V permit is subject to, and in no way derogates from any present or future property rights or other rights or powers of the State of Connecticut, and is further subject to any and all public and private rights and to any federal, state or local laws or regulations pertinent to the facility or regulated activity affected thereby, including CGS §4-181a(b) and RCSA §22a-3a-5(b). This Title V permit shall neither create nor affect any rights of persons who are not parties to this Title V permit.

S. ALTERNATIVE OPERATING SCENARIO RECORDS [RCSA §22a-174-33(o)(3)]

The Permittee shall, contemporaneously with making a change authorized by this Title V permit from one alternative operating scenario to another, maintain a record at the premises indicating when changes are made from one operating scenario to another and shall maintain a record of the current alternative operating scenario.

T. OPERATIONAL FLEXIBILITY AND OFF-PERMIT CHANGES [RCSA §22a-174-33(r)(2)]

The Permittee may engage in any action allowed by the Administrator in accordance with 40 CFR 70.4(b)(12)(i) to (iii)(B) inclusive, and 40 CFR 70.4(b)(14)(i) to (iv), inclusive without a Title V non-minor permit

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modification, minor permit modification or revision and without requesting a Title V non-minor permit modification, minor permit modification or revision provided such action does not:

1. Constitute a modification under 40 CFR Part 60, 61 or 63,
2. Exceed emissions allowable under the subject permit,
3. Constitute an action which would subject the Permittee to any standard or other requirement pursuant to 40 CFR Parts 72 to 78, inclusive, or
4. Constitute a non-minor permit modification pursuant to RCSA §22a-174-2a(d)(4).

At least seven days before initiating an action specified in RCSA §22a-174-33(r)(2)(A), the Permittee shall notify the Administrator and the commissioner in writing of such intended action.

U. INFORMATION FOR NOTIFICATION [RCSA §22a-174-33(r)(2)(A)]

Written notification required under RCSA §22a-174-33(r)(2)(A) shall include a description of each change to be made, the date on which such change will occur, any change in emissions that may occur as a result of such change, any Title V permit terms and conditions that may be affected by such change, and any applicable requirement that would apply as a result of such change. The Permittee shall thereafter maintain a copy of such notice with the Title V permit. The commissioner and the Permittee shall each attach a copy of such notice to their copy of the Title V permit.

V. TRANSFERS [RCSA §22a-174-2a(g)]

No person other than the Permittee shall act or refrain from acting under the authority of this Title V permit unless such permit has been transferred to another person in accordance with RCSA §22a-174-2a(g). The proposed transferor and transferee of a permit shall submit to the commissioner a request for a permit transfer on a form provided by the commissioner. A request for a permit transfer shall be accompanied by any fees required by any applicable provision of the general statutes or regulations adopted thereunder. The commissioner may also require the proposed transferee to submit with any such request, the information identified in CGS §22a-6m.

W. REVOCATION [RCSA §22a-174-2a(h)]

The commissioner may revoke this Title V permit on his own initiative or on the request of the Permittee or any other person, in accordance with CGS §4-182(c), RCSA §22a-3a-5(d), and any other applicable law. Any such request shall be in writing and contain facts and reasons supporting the request. The Permittee requesting revocation of this Title V permit shall state the requested date of revocation and provide evidence satisfactory to the commissioner that the subject source is no longer a Title V source.

Pursuant to the Clean Air Act, the Administrator has the power to revoke this Title V permit. Pursuant to the Clean Air Act, the Administrator also has the power to reissue this Title V permit if the Administrator has determined that the commissioner failed to act in a timely manner on a permit renewal application.

This Title V permit may be modified, revoked, reopened, reissued, or suspended by the commissioner, or the Administrator in accordance with RCSA §22a-174-33(r), CGS §22a-174c, or RCSA §22a-3a-5(d).

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Title V Requirements

X. REOPENING FOR CAUSE [RCSA §22a-174-33(s)]

This Title V permit may be reopened by the commissioner, or the Administrator in accordance with RCSA §22a-174-33(s).

Y. CREDIBLE EVIDENCE

Notwithstanding any other provision of this Title V permit, for the purpose of determining compliance or establishing whether a Permittee has violated or is in violation of any permit condition, nothing in this Title V permit shall preclude the use, including the exclusive use, of any credible evidence or information.

Permit Requirements**STEP 3**

Read the standard requirements.

- (1) The designated representative of each affected source and each affected unit at the source shall:
 - (i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and
 - (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;
- (2) The owners and operators of each affected source and each affected unit at the source shall:
 - (i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
 - (ii) Have an Acid Rain Permit.

Monitoring Requirements

- (1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the source or unit, as appropriate, with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
- (3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

- (1) The owners and operators of each source and each affected unit at the source shall:
 - (i) Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and
 - (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
- (2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
- (3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
 - (i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
 - (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).

Sulfur Dioxide Requirements, Cont'd.**STEP 3, Cont'd.**

(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.

(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.

(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.

(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements

The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Excess Emissions Requirements

(1) The designated representative of an affected source that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.

(2) The owners and operators of an affected source that has excess emissions in any calendar year shall:

(i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and

(ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

(1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:

(i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;

Recordkeeping and Reporting Requirements, Cont'd.**STEP 3, Cont'd.**

- (ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
 - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
 - (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
- (2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

- (1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
- (2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
- (3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
- (4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
- (5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
- (6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit.
- (7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

- (1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating

Montville Station
Facility (Source) Name (from STEP 1)

Effect on Other Authorities, Cont'd.

STEP 3, Cont'd.

to applicable National Ambient Air Quality Standards or State Implementation Plans;

(2) Limiting the number of allowances a source can hold; *provided*, that the number of allowances held by the source shall not affect the source's obligation to comply with any other provisions of the Act;

(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;

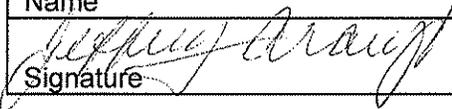
(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,

(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

Certification

STEP 4
Read the certification statement, sign, and date.

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Jeff Araujo	
Name	
	Date 3/16/12
Signature	Date