



**New York State Department of Environmental Conservation**  
Facility DEC ID: 3335600136

**PERMIT**  
**Under the Environmental Conservation Law (ECL)**

**IDENTIFICATION INFORMATION**

Permit Type: Air State Facility  
Permit ID: 3-3356-00136/00001  
Effective Date: 08/01/2013 Expiration Date: 07/31/2018

Permit Issued To: CPV VALLEY LLC  
35 BRAINTREE HILL OFFICE PARK STE 400  
BRAINTREE, MA 02184

Contact: STEVE REMILLARD  
CPV VALLEY LLC  
35 BRAINTREE HILL OFFICE PARK STE 400  
BRAINTREE, MA 02184  
(781) 817-8970

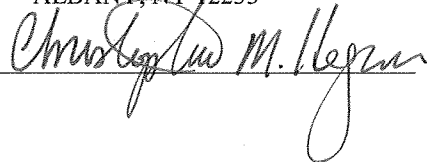
Facility: CPV VALLEY ENERGY CENTER  
US RTE 6 , RTE 17 AND INTERSTATE 84  
MIDDLETOWN, NY

Description:  
pre-construction permit

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, the General Conditions specified and any Special Conditions included as part of this permit.

Permit Administrator: CHRISTOPHER M HOGAN  
625 BROADWAY  
ALBANY, NY 12233

Authorized Signature:

 Date: 11/6/14



**New York State Department of Environmental Conservation**

Facility DEC ID: 3335600136

**Notification of Other State Permittee Obligations**

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

The permittee expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the compliance permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in any compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

Item B: Permittee's Contractors to Comply with Permit

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

Item C: Permittee Responsible for Obtaining Other Required Permits

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

Item D: No Right to Trespass or Interfere with Riparian Rights

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.

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**DEC GENERAL CONDITIONS**

\*\*\*\* General Provisions \*\*\*\*

**GENERAL CONDITIONS - Apply to ALL Authorized Permits.**

**Condition 1: Facility Inspection by the Department**

**Applicable State Requirement: ECL 19-0305**

**Item 1.1:**

The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

**Item 1.2:**

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

**Item 1.3:**

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

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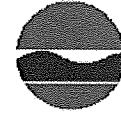
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**Condition 2: Relationship of this Permit to Other Department Orders and Determinations**

**Applicable State Requirement: ECL 3-0301 (2) (m)**

**Item 2.1:**

Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

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**Condition 3: Applications for permit renewals, modifications and transfers**

**Applicable State Requirement: 6 NYCRR 621.11**

**Item 3.1:**

The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

**Item 3.2:**

The permittee must submit a renewal application at least 180 days before expiration of permits for Title V Facility Permits, or at least 30 days before expiration of permits for State Facility Permits.

**Item 3.3:**



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Permits are transferrable with the approval of the department unless specifically prohibited by the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

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**Condition 4: Permit modifications, suspensions or revocations by the Department**

**Applicable State Requirement: 6 NYCRR 621.13**

**Item 4.1:**

The Department reserves the right to exercise all available authority to modify, suspend, or revoke this permit in accordance with 6NYCRR Part 621. The grounds for modification, suspension or revocation include:

- a) materially false or inaccurate statements in the permit application or supporting papers;
- b) failure by the permittee to comply with any terms or conditions of the permit;



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- c) exceeding the scope of the project as described in the permit application;
- d) newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
- e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

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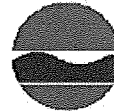
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\*\*\*\* Facility Level \*\*\*\*

**Condition 5: Submission of application for permit modification or renewal-REGION 3 HEADQUARTERS**

**Applicable State Requirement: 6 NYCRR 621.6 (a)**

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**Item 5.1:**

Submission of applications for permit modification or renewal are to be submitted to:

NYSDEC Regional Permit Administrator  
Region 3 Headquarters  
Division of Environmental Permits  
21 South Putt Corners Road  
New Paltz, NY 12561-1696  
(845) 256-3054





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ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY

PERMIT

**IDENTIFICATION INFORMATION**

Permit Issued To: CPV VALLEY LLC  
35 BRAINTREE HILL OFFICE PARK STE 400  
BRAINTREE, MA 02184

Facility: CPV VALLEY ENERGY CENTER  
US RTE 6 , RTE 17 AND INTERSTATE 84  
MIDDLETOWN, NY

Authorized Activity By Standard Industrial Classification Code:  
4911 - ELECTRIC SERVICES

Permit Effective Date: 08/01/2013

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- 42 48 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
- 42 49 40CFR 60.7(a), NSPS Subpart A: Date of construction notification  
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- 43 50 40CFR 60.7(b), NSPS Subpart A: Recordkeeping requirements.
- 43 51 40CFR 60.7(f), NSPS Subpart A: Facility files for subject sources.
- 43 52 40CFR 60.8(a), NSPS Subpart A: Performance testing timeline.
- 43 53 40CFR 60.8(b), NSPS Subpart A: Performance test methods.
- 44 54 40CFR 60.8(d), NSPS Subpart A: Prior notice.
- 44 55 40CFR 60.8(e), NSPS Subpart A: Performance testing facilities.
- 44 56 40CFR 60.8(f), NSPS Subpart A: Number of required tests.
- 44 57 40CFR 60, NSPS Subpart III: Applicability
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- 46 60 40 CFR Part 72: Facility Subject to Title IV Acid Rain  
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- 47 62 6 NYCRR 227-1.3 (a): Compliance Demonstration
  
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- 48 63 40CFR 60.43c(c), NSPS Subpart Dc: Compliance Demonstration
- 49 64 40CFR 60.48c(a), NSPS Subpart Dc: Compliance Demonstration
  
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- 49 65 6 NYCRR 231-5.4: Compliance Demonstration
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- 52 70 6 NYCRR 231-7.6: Compliance Demonstration
- 53 71 6 NYCRR 231-7.6: Compliance Demonstration
  
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- 53 72 40CFR 60.48c(g)(2), NSPS Subpart Dc: Alternative recordkeeping
  
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- 54 73 6 NYCRR 231-5.4: Compliance Demonstration
- 54 74 6 NYCRR 231-5.4: Compliance Demonstration
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- 55 76 6 NYCRR 231-7.6: Compliance Demonstration
- 56 77 6 NYCRR 231-7.6: Compliance Demonstration
- 56 78 6 NYCRR 231-7.6: Compliance Demonstration
  
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- 57 79 6 NYCRR 231-5.4: Compliance Demonstration
- 57 80 6 NYCRR 231-5.4: Compliance Demonstration
- 58 81 6 NYCRR 231-7.6: Compliance Demonstration
- 59 82 6 NYCRR 231-7.6: Compliance Demonstration
- 59 83 6 NYCRR 231-7.6: Compliance Demonstration



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60 84 6 NYCRR 231-7.6: Compliance Demonstration

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60 85 6 NYCRR 231-5.4: Compliance Demonstration

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**STATE ONLY ENFORCEABLE CONDITIONS**

**Facility Level**

65 91 ECL 19-0301: Contaminant List

66 92 6 NYCRR 201-1.4: Unavoidable noncompliance and violations

67 93 6 NYCRR Subpart 201-5: Emission Unit Definition

69 94 6 NYCRR 211.2: Visible Emissions Limited

69 95 6 NYCRR 242-1.5: CO2 Budget Trading Program - Excess emission requirements

69 96 6 NYCRR 242-1.5: Compliance Demonstration

70 97 6 NYCRR 242-1.5: Compliance Demonstration

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71 98 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit

72 99 6 NYCRR Subpart 201-5: Process Definition By Emission Unit

78 100 6 NYCRR 251.3 (a): Compliance Demonstration

NOTE: \* preceding the condition number indicates capping.



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**FEDERALLY ENFORCEABLE CONDITIONS**

**\*\*\*\* Facility Level \*\*\*\***

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

**This section contains terms and conditions which are federally enforceable. Permittees may also have other obligations under regulations of general applicability**

**Item A: Sealing - 6 NYCRR 200.5**

The Commissioner may seal an air contamination source to prevent its operation if compliance with 6 NYCRR Chapter III is not met within the time provided by an order of the Commissioner issued in the case of the violation. Sealing means labeling or tagging a source to notify any person that operation of the source is prohibited, and also includes physical means of preventing the operation of an air contamination source without resulting in destruction of any equipment associated with such source, and includes, but is not limited to, bolting, chaining or wiring shut control panels, apertures or conduits associated with such source.

No person shall operate any air contamination source sealed by the Commissioner in accordance with this section unless a modification has been made which enables such source to comply with all requirements applicable to such modification.

Unless authorized by the Commissioner, no person shall remove or alter any seal affixed to any contamination source in accordance with this section.

**Item B: Acceptable Ambient Air Quality - 6 NYCRR 200.6**

Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

**Item C: Maintenance of Equipment - 6 NYCRR 200.7**

Any person who owns or operates an air contamination source which is equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer's specifications, required to operate such device effectively.

**Item D: Unpermitted Emission Sources - 6 NYCRR 201-1.2**

If an existing emission source was subject to the permitting requirements of 6 NYCRR Part 201 at the time of construction or



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modification, and the owner and/or operator failed to apply for a permit for such emission source then the following provisions apply:

(a) The owner and/or operator must apply for a permit for such emission source or register the facility in accordance with the provisions of Part 201.

(b) The emission source or facility is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing sources or facilities.

**Item E: Emergency Defense - 6 NYCRR 201-1.5**

An emergency constitutes an affirmative defense to an action brought for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

(a) The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

- (1) An emergency occurred and that the facility owner and/or operator can identify the cause(s) of the emergency;
- (2) The equipment at the permitted facility causing the emergency was at the time being properly operated;
- (3) During the period of the emergency the facility owner and/or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
- (4) The facility owner and/or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

(b) In any enforcement proceeding, the facility owner and/or operator seeking to establish the occurrence of an emergency has the burden of proof.

(c) This provision is in addition to any emergency or upset provision contained in any applicable requirement.

**Item F: Recycling and Salvage - 6 NYCRR 201-1.7**

Where practical, any person who owns or operates an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of 6 NYCRR.

**Item G: Prohibition of Reintroduction of Collected Contaminants to the Air - 6 NYCRR 201-1.8**

No person shall unnecessarily remove, handle, or cause to be handled,



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collected air contaminants from an air cleaning device for recycling, salvage or disposal in a manner that would reintroduce them to the outdoor atmosphere.

**Item H: Proof of Eligibility for Sources Defined as Exempt Activities - 6 NYCRR 201-3.2 (a)**

The owner and/or operator of an emission source or unit that is eligible to be exempt, may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

**Item I: Proof of Eligibility for Sources Defined as Trivial Activities - 6 NYCRR 201-3.3 (a)**

The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

**Item J: Required Emission Tests - 6 NYCRR 202-1.1**

An acceptable report of measured emissions shall be submitted, as may be required by the Commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation. Failure to submit a report acceptable to the Commissioner within the time stated shall be sufficient reason for the Commissioner to suspend or deny an operating permit. Notification and acceptable procedures are specified in 6 NYCRR Subpart 202-1.

**Item K: Open Fires Prohibitions - 6 NYCRR 215.2**

Except as allowed by section 215.3 of 6 NYCRR Part 215, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.

**Item L: Permit Exclusion - ECL 19-0305**

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes



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of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

- Item M: Federally Enforceable Requirements - 40 CFR 70.6 (b)**  
All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

**FEDERAL APPLICABLE REQUIREMENTS**  
The following conditions are federally enforceable.

- Condition 1: Maintenance of Equipment**  
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR 200.7

- Item 1.1:**  
Any person who owns or operates an air contamination source which is equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer's specifications, required to operate such device effectively.

- Condition 2: Required Emissions Tests**  
Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement:6 NYCRR 202-1.1

- Item 2.1:**  
For the purpose of ascertaining compliance or non-compliance with any air pollution control code, rule or regulation, the commissioner may require the person who owns such air contamination source to submit an acceptable report of measured emissions within a stated time.

- Condition 3: Compliance Demonstration**  
Effective between the dates of 08/01/2013 and 07/31/2018





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**Applicable Federal Requirement:6 NYCRR 200.7**

**Item 3.1:**

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007664-41-7 AMMONIA

**Item 3.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The facility will maintain records to verify concentration of ammonia stored on-site is less than 19%.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: AMMONIA

Parameter Monitored: CONCENTRATION

Upper Permit Limit: 19 percent

Reference Test Method: EPA Approved

Monitoring Frequency: PER DELIVERY

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME

(INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2014.

Subsequent reports are due every 12 calendar month(s).

**Condition 4: Compliance Demonstration**

**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR 200.7**

**Item 4.1:**

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-00001

Emission Point: EP001

Emission Unit: U-00002

Emission Point: EP002

Regulated Contaminant(s):

CAS No: 007664-41-7 AMMONIA

**Item 4.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The facility shall install, calibrate, maintain and operate



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continuous emissions monitors for ammonia. The 5.0 ppmvd corrected to 15% Oxygen limit applies during all turbine loads, all fuels being fired and all duct burner operations.

Manufacturer Name/Model Number: Ammonia Analyzer  
Parameter Monitored: AMMONIA  
Upper Permit Limit: 5.0 parts per million by volume (dry, corrected to 15% O<sub>2</sub>)  
Reference Test Method: 40 CFR 60 Appendices B & F  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 10/30/2013.  
Subsequent reports are due every 3 calendar month(s).

**Condition 5: Compliance Demonstration**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement: 6 NYCRR 201-1.4 (a)**

**Item 5.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 5.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator shall, within one year following the commencement of operation, submit a Title V permit application to the Department (as per the requirements of paragraph 201-6.3(a)(3)). This application must include start-up, shutdown, and fuel switching data to establish enforceable combustion turbine start-up, shutdown, and fuel switching emission rates for NO<sub>x</sub>, CO, and NH<sub>3</sub>, and confirm that such established rates would not result in a violation of applicable NAAQS.

In the event that a minimum of 15 start-ups and 15 shutdowns, while firing distillate oil, does not occur within the one year period defined above, the owner or operator will be required to submit start-up and shutdown data, with an application for permit modification, once the 15 start-ups and shutdowns while firing distillate oil occur.

Also, if a minimum of 15 fuel switches does not occur within the one year period defined above, the owner or operator will be required to submit fuel switching data with an application for permit modification once the 15 fuel switches occur.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE



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**Condition 6: Title V Permit Requirement**  
Effective between the dates of 08/01/2013 and 07/31/2018

**Applicable Federal Requirement: 6 NYCRR 201-6.3 (a) (2)**

**Item 6.1:**

A Title V permit application must be submitted to the Department within one year of commencement of operation of this facility.

**Condition 7: Facility Permissible Emissions**  
Effective between the dates of 08/01/2013 and 07/31/2018

**Applicable Federal Requirement: 6 NYCRR Subpart 201-7**

**Item 7.1:**

The sum of emissions from the emission units specified in this permit shall not equal or exceed the following

Potential To Emit (PTE) rate for each regulated contaminant:

CAS No: 0NY075-02-5  
Name: PM 2.5

PTE: 190,000 pounds per year

**Condition 8: Capping Monitoring Condition**  
Effective between the dates of 08/01/2013 and 07/31/2018

**Applicable Federal Requirement: 6 NYCRR Subpart 201-7**

**Item 8.1:**

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

6 NYCRR 231-2.2

**Item 8.2:**

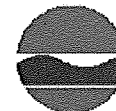
Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

**Item 8.3:**

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

**Item 8.4:**

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This



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certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

**Item 8.5:**

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

**Item 8.6:**

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY075-02-5 PM 2.5

**Item 8.7:**

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Monthly facility-wide emissions of PM-2.5 will be calculated as the sum of monthly PM-2.5 emissions from individual emission units or source groups. Emissions will be calculated based on heat input (or, equivalently, from fuel use) and emission factors as described below. Annual facility-wide emissions will then be determined at the end of each month on a rolling 12-month basis in order to demonstrate compliance with the 95 ton per year cap.

The source groups included in the emissions cap along with their associated source indices and PM-2.5 emission factors, as used in subsequent equations, are listed in the following. For each source group, the parameter that will be monitored and the monitoring frequency. Continuous monitoring of heat input to the combustion turbines, auxiliary boiler and gas heater(s) will be provided by a digital data acquisition system (DAS).

Unit	Op Load	Fuel	Grp	Emission Factor
CT only	> 80%	Gas	1	0.0056
CT only	< 80%	Gas	2	0.0073
CT + DB	> 80%	Gas	3	0.0064
CT only	> 85%	Oil	4	0.0247
CT only	< 85%	Oil	5	0.0368
Aux Boiler	All	Gas	6	0.0063
Gas Heater	All	Gas	7	0.0076
EDG	All	Oil	8	0.0091
EFP	All	Oil	9	0.0429

Where CT = combustion turbines, DB = duct burners, Aux Boiler = auxiliary boiler, EDG = emergency diesel generator and EFP = emergency fire pump



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For the combustion turbines, the proposed emission factors represent the maximum PM-2.5 emission factor over the specified normal operating loads for the associated fuel and category. In lieu of using the maximum PM-2.5 emission factors, the owner or operator may elect to use representative PM-2.5 stack test data to determine compliance with the annual PM-2.5 emissions cap.

For each source group (i), the PM-2.5 emissions in tons (Qij) for month j will be calculated as follows:

$Q_{ij} = EFi \times Hij / 2000$ , where:

- EFi = PM-2.5 emission factor or representative PM-2.5 stack test data (lb/mmBtu) for source group i
- Hij = monthly heat input (mmBtu) for source group i in month j

In cases where fuel use (gallons of oil or standard cubic feet of gas) for a source group is monitored directly rather than heat input, the equivalent heat input will be determined by multiplying the monthly fuel usage for the source group by the corresponding fuel heating value (mmBtu/gallon or mmBtu/scf), using the higher heating value (HHV) basis for the fuel.

The total facility PM-2.5 emissions in month j (Qj) will be calculated by summing over all source groups (i = 1 to 9) as follows:  $Q_j = \sum EFi \times Hij / 2000 = \sum Q_{ij}$ .

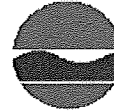
The facility-wide PM-2.5 emissions over the past 12 months (Qann) ending in month j will be determined by summing the facility-wide PM-2.5 emissions for the most recent 12 months (k = 0 to 11) as follows:

$$Q_{ann} = \sum Q_{j-k}$$

After each month, compliance will be demonstrated with the proposed 95 ton/year PM-2.5 emission limit by showing that  $Q_{ann} < 95$ .

The facility shall conduct periodic testing to demonstrate that emissions from the combustion turbines comply with the lb/mmBtu emission factors for PM-2.5. The combustion turbines will be tested once per year for the first two years of operation with the first test to be conducted within 180 days of startup.

Work Practice Type: PARAMETER OF PROCESS MATERIAL  
Process Material: FUEL  
Parameter Monitored: HEAT INPUT  
Upper Permit Limit: 95 tons per year



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Monitoring Frequency: CONTINUOUS  
Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY  
Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2014.  
Subsequent reports are due every 12 calendar month(s).

**Condition 9: Air pollution prohibited**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR 211.1**

**Item 9.1:**

No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.

**Condition 10: Facility PTE**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR 231-5.3**

**Item 10.1:**

CPV Valley Energy Center  
Facility-Wide Potential to Emit

VOC 65 tons/yr  
NOx 186.8 tons/yr

**Condition 11: Compliance Demonstration**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR 231-5.4**

**Item 11.1:**

The Compliance Demonstration activity will be performed for the facility:  
The Compliance Demonstration applies to:

Emission Unit: U-00001                      Emission Point: EP001  
Process: P1A

Emission Unit: U-00001                      Emission Point: EP001  
Process: P2A

Emission Unit: U-00002                      Emission Point: EP002  
Process: P01



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Emission Unit: U-00002  
Process: P02

Emission Point: EP002

Regulated Contaminant(s):  
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 11.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

LAER is 2.0 ppmvd corrected to 15% Oxygen. Will be achieved through use of Dry Low NOx combustion technology and SCR.

The facility shall install, calibrate, maintain, and operate a continuous emission monitor.

The limit applies at all loads except during start up and shutdown.

Manufacturer Name/Model Number: CEM

Upper Permit Limit: 2.0 parts per million by volume (dry, corrected to 15% O2)

Reference Test Method: 40 CFR Part 60 Appendix and Method 7E

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2013.

Subsequent reports are due every 3 calendar month(s).

**Condition 12: Compliance Demonstration**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement: 6 NYCRR 231-5.4**

**Item 12.1:**

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-00001  
Process: P2A

Emission Point: EP001

Emission Unit: U-00002  
Process: P02

Emission Point: EP002

Regulated Contaminant(s):  
CAS No: 0NY998-00-0 VOC

**Item 12.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING



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**Monitoring Description:**

LAER is 1.8 ppmvd corrected to 15% O2. Will be achieved using good combustion controls and an oxidation catalyst. Emission testing to be performed within 180 days of startup.

Manufacturer Name/Model Number: CEM

Parameter Monitored: CONCENTRATION

Upper Permit Limit: 1.8 parts per million by volume (dry, corrected to 15% O2)

Reference Test Method: Method 25A

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 13: Compliance Demonstration**

**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement: 6 NYCRR 231-5.4**

**Item 13.1:**

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-00001

Emission Point: EP001

Process: P3A

Emission Unit: U-00002

Emission Point: EP002

Process: P03

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 13.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

LAER is 6.0 ppmvd corrected to 15% Oxygen. Will be achieved using water injection and SCR.

The facility shall install, calibrate, maintain, and operate a continuous emission monitor.

The limit applies at all loads except during start up and shutdown.

Manufacturer Name/Model Number: CEM

Upper Permit Limit: 6.0 parts per million by volume (dry, corrected to 15% O2)

Reference Test Method: 40 CFR Part 60 Appendix and Method 7E

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)





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Reports due 30 days after the reporting period.  
The initial report is due 10/30/2013.  
Subsequent reports are due every 3 calendar month(s).

**Condition 14: Compliance Demonstration**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR 231-5.4**

**Item 14.1:**

The Compliance Demonstration activity will be performed for the facility:  
The Compliance Demonstration applies to:

Emission Unit: U-00001  
Process: P1A

Emission Point: EP001

Emission Unit: U-00001  
Process: P3A

Emission Point: EP001

Emission Unit: U-00002  
Process: P01

Emission Point: EP002

Emission Unit: U-00002  
Process: P03

Emission Point: EP002

Regulated Contaminant(s):  
CAS No: 0NY998-00-0 VOC

**Item 14.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

LAER is 0.7 ppmvd corrected to 15% O2. Will be achieved using good combustion controls and an oxidation catalyst. Emission testing to be performed within 180 days of startup.

Manufacturer Name/Model Number: CEM

Parameter Monitored: CONCENTRATION

Upper Permit Limit: 0.7 parts per million by volume (dry, corrected to 15% O2)

Reference Test Method: Method 25A

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 15: Emission offset**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR 231-5.5**



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**Item 15.1: The potential to emit Oxides of Nitrogen (NOx) from the facility has been limited to 187 tons per year. NOx emissions must be offset at a ratio of 1.15 to 1. A total of 216 tons of offsets will be required. The facility will identify the sources of offsets at a later time but prior to construction. There will be a separate noticing at that time.**

**Condition 16: Emission offsets**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR 231-5.5**

**Item 16.1: The potential to emit Volatile Organic Compounds (VOC) from the facility has been limited to 65 tons per year. VOC emissions must be offset at a ratio of 1.15 to 1. A total of 75 tons of offsets will be required. The facility will identify the sources of offsets at a later time but prior to construction. There will be a separate noticing at that time.**

**Condition 17: Offsets.**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR 231-5.5**

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**Condition 18: Facility potential to emit**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR 231-7.5**

**Item 18.1:**  
CPV Valley Energy Center  
Facility-Wide Potential to Emit

CO 344 tons /yr  
SO2 42 Tons/yr  
PM-2.5 95 tons/yr  
H2SO4 13 tons/yr  
CO2 2,164,438 tons/yr

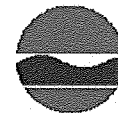
**Condition 19: Compliance Demonstration**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR 231-7.6**

**Item 19.1:**  
The Compliance Demonstration activity will be performed for the facility:  
The Compliance Demonstration applies to:

Emission Unit: U-00001

Emission Unit: U-00002



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**Item 19.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The combined cycle units shall have a heat rate of 7605 Btu/kW-hr (HHV) or less at ISO conditions without duct burner firing to achieve a design thermal efficiency of 57.4% (LHV).

Within 90 days of start-up of the facility and on an annual basis thereafter, the owner or operator shall conduct a Department-approved heat rate performance test on a combined cycle unit while it is operating at maximum load to determine heat rate.

The owner or operator shall conduct this heat rate performance test according to the requirements of the American Society of Mechanical Engineers Performance Test Code on Overall Plant Performance, ASME PTC 46-1996.

Parameter Monitored: HEAT RATE

Upper Permit Limit: 7605 BTU per kilowatt-hour

Reference Test Method: ASME PTC 46-1996

Monitoring Frequency: ANNUALLY

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2014.

Subsequent reports are due every 6 calendar month(s).

**Condition 20: Compliance Demonstration**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement: 6 NYCRR 231-7.6**

**Item 20.1:**

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-00001

Emission Unit: U-00002



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Emission Unit: U-00003

Emission Unit: U-00004

Emission Unit: U-00005

Emission Unit: U-00006

**Item 20.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operators of the facility shall calculate the annual emissions (based on a monthly rolling average) of Carbon Dioxide equivalent (CO<sub>2</sub>e) emitted from the facility.

The Emissions factors will be based on either performance tests (as required by the permit) or developed emission factors from authorized sources (i.e. - AP-42). Fuel usage shall be monitored by fuel flow meters. The information will be kept on-site and available for review for a minimum of five years.

The facility will maintain records on-site for a minimum of five years.

Reference Test Method: As Described in condition

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL TOTAL ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2014.

Subsequent reports are due every 6 calendar month(s).

**Condition 21: Compliance Demonstration**

**Effective between the dates of 08/01/2013 and 07/31/2018**

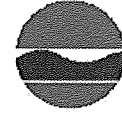
**Applicable Federal Requirement:6 NYCRR 231-7.6**

**Item 21.1:**

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-00001



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Emission Unit: U-00002

**Item 21.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility shall install, calibrate, maintain, and operate a continuous emission monitor for the total annual Carbon Dioxide equivalent (CO<sub>2</sub>e) emissions from the two combined-cycle units. The facility shall maintain records on-site for a minimum of five years.

Reference Test Method: 3A

Monitoring Frequency: CONTINUOUS

Averaging Method: ANNUAL TOTAL ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2014.

Subsequent reports are due every 6 calendar month(s).

**Condition 22: Compliance Demonstration  
Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement: 6 NYCRR 231-7.6**

**Item 22.1:**

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5      SULFUR DIOXIDE

**Item 22.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

BACT FUEL SULFUR LIMIT OF 0.0015% BY WEIGHT.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: FUEL OIL

Parameter Monitored: SULFUR CONTENT

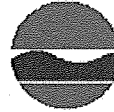
Upper Permit Limit: 0.0015 percent by weight

Reference Test Method: ASTM D-2880-71

Monitoring Frequency: PER DELIVERY

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME  
(INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: QUARTERLY (CALENDAR)



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Reports due 30 days after the reporting period.  
The initial report is due 10/30/2013.  
Subsequent reports are due every 3 calendar month(s).

**Condition 23: Compliance Demonstration**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR 231-7.6**

**Item 23.1:**

The Compliance Demonstration activity will be performed for the facility:  
The Compliance Demonstration applies to:

Emission Unit: U-00001  
Process: P1A

Emission Unit: U-00001  
Process: P2A

Emission Unit: U-00002  
Process: P01

Emission Unit: U-00002  
Process: P02

Regulated Contaminant(s):  
CAS No: 007446-09-5      SULFUR DIOXIDE

**Item 23.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

BACT is 0.0022 lb/mmBtu. Will be achieved through use of low sulfur fuels. Emission testing to be performed within 180 days of startup.

Upper Permit Limit: 0.0022 pounds per million Btus

Reference Test Method: EPA Approved

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 24: Compliance Demonstration**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR 231-7.6**

**Item 24.1:**

The Compliance Demonstration activity will be performed for the facility:  
The Compliance Demonstration applies to:



**New York State Department of Environmental Conservation**

Permit ID: 3-3356-00136/00001

Facility DEC ID: 3335600136

Emission Unit: U-00001  
Process: P1A

Emission Unit: U-00001  
Process: P2A

Emission Unit: U-00002  
Process: P01

Emission Unit: U-00002  
Process: P02

Regulated Contaminant(s):  
CAS No: 007664-93-9      SULFURIC ACID

**Item 24.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

BACT is 0.0007 lb/mmBtu. Will be achieved through use of low sulfur fuels. Emission testing to be performed within 180 days of startup.

Upper Permit Limit: 0.0007 pounds per million Btus

Reference Test Method: EPA Approved

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 25: Compliance Demonstration**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement: 6 NYCRR 231-7.6**

**Item 25.1:**

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

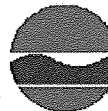
Emission Unit: U-00001  
Process: P3A

Emission Unit: U-00002  
Process: P03

Regulated Contaminant(s):  
CAS No: 007664-93-9      SULFURIC ACID

**Item 25.2:**

Compliance Demonstration shall include the following monitoring:



**New York State Department of Environmental Conservation**

Permit ID: 3-3356-00136/00001

Facility DEC ID: 3335600136

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

BACT is 0.0005 lb/mmBtu. Will be achieved through use of low sulfur fuels. Emission testing to be performed within 180 days of startup.

Upper Permit Limit: 0.0005 pounds per million Btus

Reference Test Method: EPA Approved

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 26: Compliance Demonstration**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR 231-7.6**

**Item 26.1:**

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-00001

Process: P3A

Emission Unit: U-00002

Process: P03

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

**Item 26.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

BACT is 0.0015 lb/mmBtu. Will be achieved through use of low sulfur fuels. Emission testing to be performed within 180 days of startup.

Upper Permit Limit: 0.0015 pounds per million Btus

Reference Test Method: EPA Approved

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 27: Compliance Demonstration**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR 231-7.6**





**New York State Department of Environmental Conservation**

Permit ID: 3-3356-00136/00001

Facility DEC ID: 3335600136

**Item 27.1:**

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-00001

Process: P3A

Emission Unit: U-00002

Process: P03

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

CAS No: 0NY075-00-5 PM-10

**Item 27.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

BACT is 0.0368 lb/mmBtu. Will be achieved through use of low sulfur fuels. Emission testing to be performed within 180 days of startup.

Upper Permit Limit: 0.0368 pounds per million Btus

Reference Test Method: Methods 201/201A and 202

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 28: Compliance Demonstration**

Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 231-7.6

**Item 28.1:**

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-00001

Process: P2A

Emission Unit: U-00002

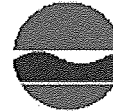
Process: P02

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 28.2:**

Compliance Demonstration shall include the following monitoring:



**New York State Department of Environmental Conservation**

Permit ID: 3-3356-00136/00001

Facility DEC ID: 3335600136

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

BACT is 3.4 ppmvd corrected to 15% Oxygen. Will be achieved through good combustion controls and an oxidation catalyst.

The facility shall install, calibrate, maintain, and operate a continuous emission monitor.

The limit applies at all loads except during start up and shutdown.

Manufacturer Name/Model Number: CO analyzer

Parameter Monitored: CONCENTRATION

Upper Permit Limit: 3.4 parts per million by volume (dry, corrected to 15% O<sub>2</sub>)

Reference Test Method: Method 10

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2013.

Subsequent reports are due every 3 calendar month(s).

**Condition 29: Compliance Demonstration**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement: 6 NYCRR 231-7.6**

**Item 29.1:**

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-00001  
Process: P1A

Emission Unit: U-00001  
Process: P2A

Emission Unit: U-00002  
Process: P01

Emission Unit: U-00002  
Process: P02

Regulated Contaminant(s):

CAS No: 0NY075-00-0	PARTICULATES
CAS No: 0NY075-00-5	PM-10

**Item 29.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:



**New York State Department of Environmental Conservation**

Permit ID: 3-3356-00136/00001

Facility DEC ID: 3335600136

BACT is 0.0073 lb/mmBtu. Will be achieved through use of low sulfur fuels. Emission testing to be performed within 180 days of startup.

Upper Permit Limit: 0.0073 pounds per million Btus  
Reference Test Method: Methods 201/201A and 202  
Monitoring Frequency: SINGLE OCCURRENCE  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 30: Compliance Demonstration**  
Effective between the dates of 08/01/2013 and 07/31/2018

**Applicable Federal Requirement: 6 NYCRR 231-7.6**

**Item 30.1:**

The Compliance Demonstration activity will be performed for the facility:  
The Compliance Demonstration applies to:

Emission Unit: U-00001  
Process: P1A

Emission Unit: U-00001  
Process: P3A

Emission Unit: U-00002  
Process: P01

Emission Unit: U-00002  
Process: P03

Regulated Contaminant(s):  
CAS No: 000630-08-0 CARBON MONOXIDE

**Item 30.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

BACT is 2.0 ppmvd corrected to 15% Oxygen. Will be achieved through good combustion controls and an oxidation catalyst.

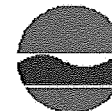
The facility shall install, calibrate, maintain, and operate a continuous emission monitor.

The limit applies at all loads except during start up and shutdown.

Manufacturer Name/Model Number: CO analyzer

Parameter Monitored: CONCENTRATION

Upper Permit Limit: 2.0 parts per million by volume (dry, corrected to 15% O<sub>2</sub>)



**New York State Department of Environmental Conservation**

Permit ID: 3-3356-00136/00001

Facility DEC ID: 3335600136

Reference Test Method: Method 10  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 10/30/2013.  
Subsequent reports are due every 3 calendar month(s).

**Condition 31: Permit Requirements**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR 243-1.6 (a)**

**Item 31.1:**

The CAIR designated representative of each CAIR NOx Ozone Season source shall:  
(i) submit to the department a complete CAIR permit application under section 243-3.3 in accordance with the deadlines specified in section 243-3.2; and  
(ii) submit in a timely manner any supplemental information that the department determines is necessary in order to review a CAIR permit application and issue or deny a CAIR permit.

The owners and operators of each CAIR NOx Ozone Season source shall have a CAIR permit issued by the department under Subpart 243-3 for the source and operate the source and the unit in compliance with such CAIR permit.

**Condition 32: Monitoring requirements**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR 243-1.6 (b)**

**Item 32.1:**

The emissions measurements recorded and reported in accordance with Subpart 243-8 shall be used to determine compliance by each CAIR NOx Ozone Season source with the CAIR NOx Ozone Season emissions limitation under subdivision (c) of this section.

**Condition 33: NOx Ozone Season Emission Requirements**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR 243-1.6 (c)**

**Item 33.1:**

As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NOx Ozone Season source and each CAIR NOx Ozone Season unit at the source shall hold, in the source's compliance account, CAIR NOx Ozone Season allowances available for compliance deductions for the control period under section 243-6.5(a) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NOx Ozone Season units at the source, as determined in accordance with Subpart 243-8. The CAIR NOx ozone season is the period beginning May 1 of a calendar year, except as provided in section 243-1.6(c)(2), and ending on September 30 of the same year, inclusive.

A CAIR NOx Ozone Season unit shall be subject to the requirements under paragraph (c)(1) of this section for the control period starting on the later of May 1, 2009 or the deadline for meeting



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the unit's monitor certification requirements under sections 243-8.1(b)(1), (2), (3), or (7) and for each control period thereafter.

A CAIR NOx Ozone Season allowance shall not be deducted, for compliance with the requirements under paragraph (c)(1) of this section, for a control period in a calendar year before the year for which the CAIR NOx Ozone Season allowance was allocated.

CAIR NOx Ozone Season allowances shall be held in, deducted from, or transferred into or among CAIR NOx Ozone Season Allowance Tracking System accounts in accordance with Subparts 243-6, 243-7, and 243-9.

A CAIR NOx Ozone Season allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NOx Ozone Season Trading Program. No provision of the CAIR NOx Ozone Season Trading Program, the CAIR permit application, the CAIR permit, or an exemption under section 243-1.5 and no provision of law shall be construed to limit the authority of the State or the United States to terminate or limit such authorization.

A CAIR NOx Ozone Season allowance does not constitute a property right.

Upon recordation by the Administrator under Subpart 243-6, 243-7, or 243-9, every allocation, transfer, or deduction of a CAIR NOx Ozone Season allowance to or from a CAIR NOx Ozone Season source's compliance account is incorporated automatically in any CAIR permit of the source.

**Condition 34: Excess emission requirements**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR 243-1.6 (d)**

**Item 34.1:**

If a CAIR NOx Ozone Season source emits nitrogen oxides during any control period in excess of the CAIR NOx Ozone Season emissions limitation, then:

(1) the owners and operators of the source and each CAIR NOx Ozone Season unit at the source shall surrender the CAIR NOx Ozone Season allowances required for deduction under section 243-6.5(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Act or applicable State law; and

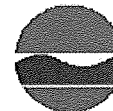
(2) each ton of such excess emissions and each day of such control period shall constitute a separate violation of this Subpart, the Act, and applicable State law.

**Condition 35: Recordkeeping and reporting requirements**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR 243-1.6 (e)**

**Item 35.1:**

Unless otherwise provided, the owners and operators of the CAIR NOx Ozone Season source and each CAIR NOx Ozone Season unit at the source shall keep on site at the source each of the following documents for a period of five years from the date the document is created. This period may be extended for cause, at any time before the end of five years, in writing by the department or the Administrator.



**New York State Department of Environmental Conservation**

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(i) The certificate of representation under section 243-2.4 for the CAIR designated representative for the source and each CAIR NOx Ozone Season unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such five-year period until such documents are superseded because of the submission of a new certificate of representation under section 243-2.4 changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with Subpart 243-8, provided that to the extent that Subpart 243-8 provides for a three-year period for recordkeeping, the three-year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NOx Ozone Season Trading Program.

(iv) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NOx Ozone Season Trading Program or to demonstrate compliance with the requirements of the CAIR NOx Ozone Season Trading Program.

**Condition 36: Authorization and responsibilities of CAIR designated representative  
Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement: 6 NYCRR 243-2.1**

**Item 36.1:**

Except as provided under section 243-2.2, each CAIR NOx Ozone Season source, including all CAIR NOx Ozone Season units at the source, shall have one and only one CAIR designated representative, with regard to all matters under the CAIR NOx Ozone Season Trading Program concerning the source or any CAIR NOx Ozone Season unit at the source.

The CAIR designated representative of the CAIR NOx Ozone Season source shall be selected by an agreement binding on the owners and operators of the source and all CAIR NOx Ozone Season units at the source and shall act in accordance with the certification statement in section 243-2.4(a)(4)(iv).

Upon receipt by the Administrator of a complete certificate of representation under section 243-2.4, the CAIR designated representative of the source shall represent and, by his or her representations, actions, inactions, or submissions, legally bind each owner and operator of the CAIR NOx Ozone Season source represented and each CAIR NOx Ozone Season unit at the source in all matters pertaining to the CAIR NOx Ozone Season Trading Program, notwithstanding any agreement between the CAIR designated representative and such owners and operators. The owners and operators shall be bound by any decision or order issued to the CAIR designated representative by the department, the Administrator, or a court regarding the source or unit.

No CAIR permit will be issued, no emissions data reports will be accepted, and no CAIR NOx Ozone Season Allowance Tracking System account will be established for a CAIR NOx Ozone Season unit at a source, until the Administrator has received a complete certificate of representation under section 243-2.4 for a CAIR designated representative of the source and the CAIR NOx Ozone Season units at the source.

Each submission under the CAIR NOx Ozone Season Trading Program shall be submitted,



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signed, and certified by the CAIR designated representative for each CAIR NOx Ozone Season source on behalf of which the submission is made. Each such submission shall include the following certification statement by the CAIR designated representative: "I am authorized to make this submission on behalf of the owners and operators of the source or 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."

**Condition 37: Certificate of representation**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR 243-2.4**

**Item 37.1:**

Unless otherwise required by the department or the Administrator, documents of agreement referred to in the certificate of representation shall not be submitted to the department or the Administrator. Neither the department nor the Administrator shall be under any obligation to review or evaluate the sufficiency of such documents, if submitted.

**Condition 38: General requirements**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR 243-8.1**

**Item 38.1:**

The owners and operators, and to the extent applicable, the CAIR designated representative, of a CAIR NOx Ozone Season unit, shall comply with the monitoring, recordkeeping, and reporting requirements as provided in this Subpart and in Subpart H of 40 CFR Part 75. For purposes of complying with such requirements, the definitions in section 243-1.2 and in 40 CFR 72.2 shall apply, and the terms "affected unit," "designated representative," and "continuous emission monitoring system" (or "CEMS") in 40 CFR Part 75 shall be deemed to refer to the terms "CAIR NOx Ozone Season unit," "CAIR designated representative," and "continuous emission monitoring system" (or "CEMS") respectively, as defined in section 243-1.2. The owner or operator of a unit that is not a CAIR NOx Ozone Season unit but that is monitored under 40 CFR 75.72(b)(2)(ii) shall comply with the same monitoring, recordkeeping, and reporting requirements as a CAIR NOx Ozone Season unit.

'Requirements for installation, certification, and data accounting.' The owner or operator of each CAIR NOx Ozone Season unit shall:

- (1) install all monitoring systems required under this Subpart for monitoring NOx mass emissions and individual unit heat input (including all systems required to monitor NOx emission rate, NOx concentration, stack gas moisture content, stack gas flow rate, CO2 or O2 concentration, and fuel flow rate, as applicable, in accordance with 40 CFR 75.71 and 40 CFR 75.72);
- (2) successfully complete all certification tests required under section 243-8.2 and meet all other requirements of this Subpart and 40 CFR Part 75 applicable to the monitoring systems under



**New York State Department of Environmental Conservation**

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paragraph (a)(1) of this section; and

(3) record, report, and quality-assure the data from the monitoring systems under paragraph (a)(1) of this section.

**Condition 39: Prohibitions**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR 243-8.1**

**Item 39.1:**

No owner or operator of a CAIR NOx Ozone Season unit shall use any alternative monitoring system, alternative reference method, or any other alternative to any requirement of this Subpart without having obtained prior written approval in accordance with section 243-8.6.

No owner or operator of a CAIR NOx Ozone Season unit shall operate the unit so as to discharge, or allow to be discharged, NOx emissions to the atmosphere without accounting for all such emissions in accordance with the applicable provisions of this Subpart and 40 CFR Part 75.

No owner or operator of a CAIR NOx Ozone Season unit shall disrupt the continuous emission monitoring system, any portion thereof, or any other approved emission monitoring method, and thereby avoid monitoring and recording NOx mass emissions discharged into the atmosphere or heat input, except for periods of recertification or periods when calibration, quality assurance testing, or maintenance is performed in accordance with the applicable provisions of this Subpart and 40 CFR Part 75.

No owner or operator of a CAIR NOx Ozone Season unit shall retire or permanently discontinue use of the continuous emission monitoring system, any component thereof, or any other approved monitoring system under this Subpart, except under any one of the following circumstances:

- (i) during the period that the unit is covered by an exemption under section 243-1.5 that is in effect;
- (ii) the owner or operator is monitoring emissions from the unit with another certified monitoring system approved, in accordance with the applicable provisions of this Subpart and 40 CFR Part 75, by the department for use at that unit that provides emission data for the same pollutant or parameter as the retired or discontinued monitoring system; or
- (iii) the CAIR designated representative submits notification of the date of certification testing of a replacement monitoring system for the retired or discontinued monitoring system in accordance with section 243-8.2(d)(3)(i).

**Condition 40: Quarterly reports**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

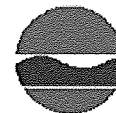
**Applicable Federal Requirement:6 NYCRR 243-8.5 (d)**

**Item 40.1:**

The CAIR designated representative shall submit quarterly reports, as follows:

If the CAIR NOx Ozone Season unit is subject to an Acid Rain emissions limitation or a CAIR NOx emissions limitation or if the owner or operator of such unit chooses to report on an annual basis under this Subpart, the CAIR designated representative shall meet the requirements of





**New York State Department of Environmental Conservation**

Permit ID: 3-3356-00136/00001

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Subpart H of 40 CFR Part 75 (concerning monitoring of NOx mass emissions) for such unit for the entire year and shall report the NOx mass emissions data and heat input data for such unit, in an electronic quarterly report in a format prescribed by the Administrator, for each calendar quarter beginning with:

(i) for a unit that commences commercial operation before July 1, 2007, the calendar quarter covering May 1, 2008 through June 30, 2008;

(ii) for a unit that commences commercial operation on or after July 1, 2007, the calendar quarter corresponding to the earlier of the date of provisional certification or the applicable deadline for initial certification under section 243-8.1(b), unless that quarter is the third or fourth quarter of 2007 or the first quarter of 2008, in which case reporting shall commence in the quarter covering May 1, 2008 through June 30, 2008.

The CAIR designated representative shall submit each quarterly report to the Administrator within 30 days following the end of the calendar quarter covered by the report. Quarterly reports shall be submitted in the manner specified in 40 CFR 75.73(f).

For CAIR NOx Ozone Season units that are also subject to an Acid Rain emissions limitation or the CAIR NOx Annual Trading Program, CAIR SO2 Trading Program, or the Mercury Reduction Program for Coal-Fired Electric Utility Steam Generating Units (6 NYCRR Part 246), quarterly reports shall include the applicable data and information required by Subparts F through I of 40 CFR Part 75 as applicable, in addition to the NOx mass emission data, heat input data, and other information required by this Subpart.

**Condition 41: Compliance certification**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement: 6 NYCRR 243-8.5 (e)**

**Item 41.1:**

The CAIR designated representative shall submit to the Administrator a compliance certification (in a format prescribed by the Administrator) in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The certification shall state that:

(1) the monitoring data submitted were recorded in accordance with the applicable requirements of this Subpart and 40 CFR Part 75, including the quality assurance procedures and specifications;

(2) for a unit with add-on NOx emission controls and for all hours where NOx data are substituted in accordance with 40 CFR 75.34(a)(1), the add-on emission controls were operating within the range of parameters listed in the quality assurance/quality control program under appendix B to 40 CFR Part 75 and the substitute data values do not systematically underestimate NOx emissions; and

(3) for a unit that is reporting on a control period basis under subparagraph (d)(2)(ii) of this section, the NOx emission rate and NOx concentration values substituted for missing data under Subpart D of 40 CFR Part 75 are calculated using only values from a control period and do not systematically underestimate NOx emissions.

**Condition 42: CAIR NOx Annual Trading Program General Conditions**



**New York State Department of Environmental Conservation**

Permit ID: 3-3356-00136/00001

Facility DEC ID: 3335600136

**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR Subpart 244-1**

**Item 42.1:**

1) As of midnight of March 1, or midnight of the first business day thereafter if March 1 is not a business day, the owners and operators shall hold, in their compliance account, Clean Air Interstate Rule (CAIR) NOx allowances available for compliance deductions for the previous control period (January 1 through December 31), in an amount not less than the total tons of nitrogen oxides emissions from all CAIR NOx units at the source during that control period. A CAIR NOx allowance shall not be deducted for a control period in a calendar year before the year for which the CAIR NOx allowance was allocated. [244-1.6(c)(1), 244-1.2(b)(5), 244-1.2(b)(36), 244-1.6(c)(3)]

2) The owners and operators shall hold in their compliance account, CAIR NOx allowances available for compliance deductions for the control period starting on the later of January 1, 2009 or the deadline for meeting a CAIR NOx unit's monitor certification requirements under section 244-8.1(b)(1), (2), or (5) and for each control period thereafter. [244-1.6(c)(2)]

3) If a CAIR NOx source emits nitrogen oxides during any control period in excess of the CAIR NOx emissions limitation, the owners and operators of the CAIR NOx source shall surrender the CAIR NOx allowances required for deduction under 6NYCRR Part 244-6.5(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Act or applicable State law. Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this permit, the Act, and applicable State law. [(244-1.6(d)]

4) Unless otherwise provided, the owners and operators of the CAIR NOx source shall keep on site each of the following documents for a period of five years from the date the document is created. This period may be extended for cause, at any time before the end of five years, in writing by the department or the Administrator: [244-1.6(e)]

(i) The certificate of representation under 6NYCRR Part 244-2.4 for the CAIR designated representative for the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such five year period until such documents are superseded because of the submission of a new certificate of representation under 6NYCRR Part 244-2.4 changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with 6NYCRR Part 244-8, provided that to the extent that 6NYCRR Part 244-8 provides for a three year period for recordkeeping, the three year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NOx Annual Trading Program.

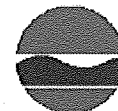
(iv) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NOx Annual Trading Program or to demonstrate compliance with the requirements of the CAIR NOx Annual Trading Program.

**Condition 43: Designated CAIR Representative**

**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR Subpart 244-2**

**Item 43.1:**



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1) Each Clean Air Interstate Rule (CAIR) NOx source shall have one CAIR designated representative and may have one alternate representative, as per 6NYCRR Part 244-2.2, with regard to all matters under the CAIR NOx Annual Trading Program. The CAIR designated representative shall be selected by an agreement binding on the owners and operators of the source and act in accordance with the certification statement in 6NYCRR Part 244-2.4(a)(4)(iv). Upon receipt by the Administrator of a complete certificate of representation under 6NYCRR Part 244-2.4, the CAIR designated representative of the source shall represent and, by his or her representations, actions, inactions, or submissions, legally bind each owner and operator of the CAIR NOx source represented in all matters pertaining to the CAIR NOx Annual Trading Program, notwithstanding any agreement between the CAIR designated representative and such owners and operators. The owners and operators shall be bound by any decision or order issued to the CAIR designated representative by the department, the Administrator, or a court regarding the source. [244-2.1(a), (b) & (c)]

(2) Each submission under the CAIR NOx Annual Trading Program shall be submitted, signed, and certified by the CAIR designated representative for each CAIR NOx source on behalf of which the submission is made. Each such submission shall include the following certification statement by the CAIR designated representative: "I am authorized to make this submission on behalf of the owners and operators of the source or 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." [244-2.1(e)]

**Condition 44: Compliance Demonstration**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement: 6 NYCRR Subpart 244-8**

**Item 44.1:**

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 44.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Monitoring and Reporting NOx emissions

(1) The owners and operators, and to the extent applicable, the CAIR designated representative shall comply with all recordkeeping and reporting requirements in this condition, the applicable recordkeeping and reporting requirements under 40 CFR 75, and the requirements of 6NYCRR Part 244-2.1(e)(1).

(2) The CAIR designated representative shall submit quarterly reports



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of the the NOx mass emissions data and heat input data for each CAIR NOx unit, in an electronic quarterly report in a format prescribed by the Administrator, for each calendar quarter beginning with the calendar quarter corresponding to the earlier of the date of provisional certification or the applicable deadline for initial certification under 6NYCRR Part 244-8.1(b), unless that quarter is the third or fourth quarter of 2007, in which case reporting shall commence in the quarter covering January 1, 2008 through March 31, 2008.

(3) The CAIR designated representative shall submit each quarterly report to the Administrator within 30 days following the end of the calendar quarter covered by the report. Quarterly reports shall be submitted in the manner specified in 40 CFR 75.73(f).

(4) For CAIR NOx units that are also subject to an Acid Rain emissions limitation or the CAIR NOx Ozone Season Trading Program, CAIR SO2 Trading Program, or the Mercury Reduction Program for Coal-Fired Electric Utility Steam Generating Units (6NYCRR Part 246), quarterly reports shall include the applicable data and information required by Subparts F through I of 40 CFR Part 75 as applicable, in addition to the NOx mass emission data, heat input data, and other information required by this Subpart.

(5) 'Compliance certification.' The CAIR designated representative shall submit to the Administrator a compliance certification (in a format prescribed by the Administrator) in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The certification shall state that:

(i) the monitoring data submitted were recorded in accordance with the applicable requirements of 6NYCRR Part 244 and 40 CFR Part 75, including the quality assurance procedures and specifications; and

(ii) for a unit with add-on NOx emission controls and for all hours where NOx data are substituted in accordance with 40 CFR 75.34(a)(1), the add-on emission controls were operating within the range of parameters listed in the quality assurance/quality control program under appendix B to 40 CFR Part 75 and the substitute data values do not systematically underestimate NOx emissions.

(6) Whenever any monitoring system fails to meet the quality-assurance and quality-control requirements or data validation requirements of 40 CFR part 75, data shall be substituted using the applicable missing data procedures in Subpart D or Subpart H of, or appendix D or appendix E to 40 CFR part 75. [ 244-8.3(a) ]

(7) Whenever the owner or operator makes a replacement, modification, or change in any certified continuous emission monitoring system under



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6NYCRR Part 244-8.1(a)(1) that may significantly affect the ability of the system to accurately measure or record NOx mass emissions or heat input rate or to meet the quality-assurance and quality-control requirements of 40 CFR 75.21 or appendix B to 40 CFR Part 75, the owner or operator shall recertify the monitoring system in accordance with 40 CFR 75.20(b). Furthermore, whenever the owner or operator makes a replacement, modification, or change to the flue gas handling system or the unit's operation that may significantly change the stack flow or concentration profile, the owner or operator shall recertify each continuous emission monitoring system whose accuracy is potentially affected by the change, in accordance with 40 CFR 75.20(b). Examples of changes to a continuous emission monitoring system that require recertification include replacement of the analyzer, complete replacement of an existing continuous emission monitoring system, or change in location or orientation of the sampling probe or site. Any fuel flowmeter system, and any excepted NOx monitoring system under appendix E to 40 CFR part 75, under 6NYCRR Part 244-8.1(a)(1) are subject to the recertification requirements in 40 CFR 75.20(g)(6). [224-8.2(d)(2)]

Monitoring Frequency: CONTINUOUS  
Averaging Method: ANNUAL TOTAL  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 10/30/2013.  
Subsequent reports are due every 3 calendar month(s).

**Condition 45: CAIR SO2 Trading Program General Provisions**  
Effective between the dates of 08/01/2013 and 07/31/2018

**Applicable Federal Requirement: 6 NYCRR Subpart 245-1**

**Item 45.1:**

1) As of midnight of March 1, or midnight of the first business day thereafter (if March 1 is not a business day) for a control period, the owners and operators of each Clean Air Interstate Rule (CAIR) SO2 source shall hold, in the source's compliance account, a tonnage equivalent in CAIR SO2 allowances available for compliance deductions for the control period (January 1 through December 31) not less than the tons of total sulfur dioxide emissions for the control period from all CAIR SO2 units at the source. A CAIR SO2 allowance shall not be deducted, for compliance with the requirements under paragraph (2) of this section, for a control period in a calendar year before the year for which the CAIR SO2 allowance was allocated. [(245-1.2(b)(5), 245-1.6(c)(1), 245-1.2(b)(36), 245-1.6(c)(3)]

2) The owners and operators shall hold in their compliance account, CAIR SO allowances available for compliance deductions for the control period starting on the later of January 1, 2010 or the deadline for meeting a CAIR SO2 unit's monitor certification requirements under section 245-8.1(b)(1), (2), or (5) and for each control period thereafter. [245-1.6(c)(2)]

3) If a CAIR SO2 source emits sulfur dioxide during any control period in excess of the CAIR SO2 emissions limitation, the owners and operators of the source shall surrender the CAIR SO2



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allowances required for deduction under 6NYCRR Part 245-6.5(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Act or applicable State law. Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this Subpart, the Act, and applicable State law.  
[(245-1.6(d))]

4) Unless otherwise provided, the owners and operators of the CAIR SO<sub>2</sub> source shall keep on site at the source each of the following documents for a period of five years from the date the document is created. This period may be extended for cause, at any time before the end of five years, in writing by the department or the Administrator: [245-1.6(e)]

(i) The certificate of representation under 6NYCRR Part 245-2.4 for the CAIR designated representative for the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such five-year period until such documents are superseded because of the submission of a new certificate of representation under 6NYCRR Part 245-2.4 changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with 6NYCRR Part 245-8, provided that to the extent that 6NYCRR Part 245-8 provides for a three-year period for recordkeeping, the three-year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR SO<sub>2</sub> Trading Program.

(iv) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR SO<sub>2</sub> Trading Program or to demonstrate compliance with the requirements of the CAIR SO<sub>2</sub> Trading Program.

**Condition 46: Designated CAIR Representative**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement: 6 NYCRR Subpart 245-2**

**Item 46.1:**

1) Each CAIR SO<sub>2</sub> source shall have one and only one CAIR designated representative and may have one alternate representative, as per 6NYCRR Part 245-2.2, with regard to all matters under the CAIR SO<sub>2</sub> Trading Program. The CAIR designated representative of the CAIR SO<sub>2</sub> source shall be selected by an agreement binding on the owners and operators of the source and all CAIR SO<sub>2</sub> units at the source and shall act in accordance with the certification statement in 6NYCRR Part 245-2.4(a)(4)(iv). Upon receipt by the Administrator of a complete certificate of representation under 6NYCRR Part 245-2.4, the CAIR designated representative of the source shall represent and, by his or her representations, actions, inactions, or submissions, legally bind each owner and operator of the CAIR SO<sub>2</sub> source represented and each CAIR SO<sub>2</sub> unit at the source in all matters pertaining to the CAIR SO<sub>2</sub> Trading Program, notwithstanding any agreement between the CAIR designated representative and such owners and operators. The owners and operators shall be bound by any decision or order issued to the CAIR designated representative by the department, the Administrator, or a court regarding the source or unit.  
[245-2.1(a), (b) & (c)]

(2) Each submission under the CAIR SO<sub>2</sub> Trading Program shall be submitted, signed, and certified by the CAIR designated representative for each CAIR SO<sub>2</sub> source on behalf of which the submission is made. Each such submission shall include the following certification statement by the CAIR designated representative: "I am authorized to make this submission on behalf of the owners and operators of the source or 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



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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." [245-2.1(e)]

**Condition 47: Compliance Demonstration**  
Effective between the dates of 08/01/2013 and 07/31/2018

**Applicable Federal Requirement: 6 NYCRR Subpart 245-8**

**Item 47.1:**

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

**Item 47.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Monitoring and Reporting SO2 emissions:

1) The owners and operators, and to the extent applicable, the Clean Air Interstate Rule (CAIR) designated representative, of a CAIR SO2 unit, shall comply with the monitoring, recordkeeping, and reporting requirements as provided in Subpart 6 NYCRR Part 245-8 and in 40 CFR Part 75, Subparts F and G. For purposes of complying with such requirements, the definitions in section 245-1.2 and 40 CFR 72.2 shall apply, and the terms "affected unit," "designated representative," and "continuous emission monitoring system" (or "CEMS") in 40 CFR Part 75 shall be deemed to refer to the terms "CAIR SO2 unit," "CAIR designated representative," and "continuous emission monitoring system" (or "CEMS") respectively, as defined in section 245-1.2. The owner or operator of a unit that is not a CAIR SO2 unit but that is monitored under 40 CFR 75.16(b)(2) shall comply with the same monitoring, recordkeeping, and reporting requirements as a CAIR SO2 unit. [245-8.1]

2) The owner or operator of each CAIR SO2 unit shall: [245-8.1(a)]

(i) install all monitoring systems required under this Subpart for monitoring SO2 mass emissions and individual unit heat input (including all systems required to monitor SO2 concentration, stack gas moisture content, stack gas flow rate, CO2 or O2 concentration, and fuel flow rate, as applicable, in accordance with 40 CFR 75.11 and 40 CFR 75.16);

(ii) successfully complete all certification tests required under Part 245-8.2 and meet all other requirements of this section and 40 CFR Part 75 applicable to the monitoring systems under this section; and



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(iii) record, report, and quality-assure the data from the monitoring systems under paragraph of this section.

3) The owner or operator shall meet the monitoring system certification and other requirements of section 245-8.1(a)(1) and (2) on or before the following dates. The owner or operator shall record, report, and quality-assure the data from the monitoring systems under section 245-8.1(a)(1) on and after the following dates. [245-8.1(b)]

(i) For the CAIR SO<sub>2</sub> unit that commences commercial operation before July 1, 2008, by January 1, 2009.

(ii) For the CAIR SO<sub>2</sub> unit that commences commercial operation on or after July 1, 2008, by the later of the following dates: January 1, 2009; or 90 unit operating days or 180 calendar days, whichever occurs first, after the date on which the unit commences commercial operation.

4) Whenever the owner or operator makes a replacement, modification, or change in any certified continuous emission monitoring system under section 245-8.1(a)(1) that may significantly affect the ability of the system to accurately measure or record SO<sub>2</sub> mass emissions or heat input rate or to meet the quality-assurance and quality-control requirements of 40 CFR 75.21 or appendix B to 40 CFR Part 75, the owner or operator shall recertify the monitoring system in accordance with 40 CFR 75.20(b). Furthermore, whenever the owner or operator makes a replacement, modification, or change to the flue gas handling system or the unit's operation that may significantly change the stack flow or concentration profile, the owner or operator shall recertify each continuous emission monitoring system whose accuracy is potentially affected by the change, in accordance with 40 CFR 75.20(b). Examples of changes to a continuous emission monitoring system that require recertification include: replacement of the analyzer, complete replacement of an existing continuous emission monitoring system, or change in location or orientation of the sampling probe or site. Any fuel flowmeter system under section 245-8.1(a)(1) is subject to the recertification requirements in 40 CFR 75.20(g)(6). [245-8.2(d)(2)]

5) Whenever any monitoring system fails to meet the quality-assurance and quality-control requirements or data validation requirements of 40 CFR Part 75, data shall be substituted using the applicable missing data procedures in Subpart D of or appendix D to 40 CFR Part 75. [245-8.3(a)]

6) The CAIR designated representative shall comply with all recordkeeping and reporting requirements in section 245-8.3, the applicable recordkeeping and reporting requirements in Subparts F and G of 40 CFR Part 75, and the requirements of section 245-2.1(e)(1). [245-8.5(a)]

7) The owner or operator of a CAIR SO<sub>2</sub> unit shall comply with requirements of 40 CFR 75.62 for monitoring plans. [245-8.5(b)]





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8) The CAIR designated representative shall submit an application to the department within 45 days after completing all initial certification or recertification tests required under section 245-8.2, including the information required under 40 CFR 75.63. [245-8.5(c)]

9) The CAIR designated representative shall submit quarterly reports of the SO<sub>2</sub> mass emissions data and heat input data for each CAIR SO<sub>2</sub> unit, in an electronic quarterly report in a format prescribed by the Administrator, for each calendar quarter beginning with:  
[245-8.5(d)(1)]

i) the calendar quarter covering January 1, 2009 through March 31, 2009 for a unit that commences commercial operation before July 1, 2008; or

ii) for a unit that commences commercial operation on or after July 1, 2008, the calendar quarter corresponding to the earlier of the date of provisional certification or the applicable deadline for initial certification under section 245-8.1(b), unless that quarter is the third or fourth quarter of 2008, in which case reporting shall commence in the quarter covering January 1, 2009 through March 31, 2009.

10) The CAIR designated representative shall submit each quarterly report to the Administrator within 30 days following the end of the calendar quarter covered by the report. Quarterly reports shall be submitted in the manner specified in 40 CFR 75.64.  
[245-8.5(d)(2)]

11) For CAIR SO<sub>2</sub> units that are also subject to an Acid Rain emissions limitation or the CAIR NO<sub>x</sub> Annual Trading Program, CAIR NO<sub>x</sub> Ozone Season Trading Program, or the Mercury Reduction Program for Coal-Fired Electric Utility Steam Generating Units (6 NYCRR Part 246), quarterly reports shall include the applicable data and information required by Subparts F through I of 40 CFR Part 75 as applicable, in addition to the SO<sub>2</sub> mass emission data, heat input data, and other information required by this Subpart. [245-8.5(d)(3)]

12) The CAIR designated representative shall submit to the Administrator a compliance certification (in a format prescribed by the Administrator) in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The certification shall state that: [245-8.5(e)]

i) the monitoring data submitted were recorded in accordance with the applicable requirements of this Subpart and 40 CFR Part 75, including the quality assurance procedures and specifications; and

ii) for a unit with add-on SO<sub>2</sub> emission controls and for all hours where SO<sub>2</sub> data are substituted in accordance with 40 CFR 75.34(a)(1), the add-on emission controls were operating within the range of parameters listed in the quality assurance/quality control program under appendix B to 40 CFR Part 75 and the substitute data values do not systematically underestimate SO<sub>2</sub> emissions.



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Monitoring Frequency: CONTINUOUS  
Averaging Method: ANNUAL TOTAL  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 10/30/2013.  
Subsequent reports are due every 3 calendar month(s).

**Condition 48: EPA Region 2 address.**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:40CFR 60.4, NSPS Subpart A**

**Item 48.1:**

All requests, reports, applications, submittals, and other communications to the Administrator pursuant to this part shall be submitted in duplicate to the following address:

Director, Division of Enforcement and Compliance Assistance  
USEPA Region 2  
290 Broadway, 21st Floor  
New York, NY 10007-1886

Copies of all correspondence to the administrator pursuant to this part shall also be submitted to the NYSDEC Regional Office issuing this permit (see address at the beginning of this permit) and to the following address:

NYSDEC  
Bureau of Quality Assurance  
625 Broadway  
Albany, NY 12233-3258

**Condition 49: Date of construction notification - If a COM is not used.**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:40CFR 60.7(a), NSPS Subpart A**

**Item 49.1:**

Any owner or operator subject to this part shall furnish the Administrator with the following information:

- 1) a notification of the date construction or reconstruction commenced, post marked no later than 30 days after such date;
- 3) a notification of the actual date of initial start up, post marked within 15 days after such date;
- 4) a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless the change is specifically exempted under this part. The notice shall be post marked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capability of the facility before and after the change, and the expected completion date of the change. The



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Administrator may request additional information regarding the change;

5) a notification of the date upon which the demonstration of continuous monitoring system performance commences, post marked not less than 30 days prior to such date;

6) a notification of the anticipated date for conducting the opacity observations, post marked not less than 30 days prior to such date.

**Condition 50: Recordkeeping requirements.**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:40CFR 60.7(b), NSPS Subpart A**

**Item 50.1:**

Affected owners or operators shall maintain records of occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

**Condition 51: Facility files for subject sources.**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:40CFR 60.7(f), NSPS Subpart A**

**Item 51.1:**

The following files shall be maintained at the facility for all affected sources: all measurements, including continuous monitoring systems, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part, recorded in permanent form suitable for inspections. The file shall be maintained for at least two years following the date of such measurements, reports, and records.

**Condition 52: Performance testing timeline.**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:40CFR 60.8(a), NSPS Subpart A**

**Item 52.1:**

Within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup of the facility, the owner or operator of the facility shall conduct performance testing and provide the results of such tests, in a written report, to the Administrator.

**Condition 53: Performance test methods.**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:40CFR 60.8(b), NSPS Subpart A**

**Item 53.1:**

Performance testing shall be conducted in accordance with the methods and procedures prescribed in 40 CFR 60 or by alternative methods and procedures approved by the Administrator.



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**Condition 54: Prior notice.**

Effective between the dates of 08/01/2013 and 07/31/2018

**Applicable Federal Requirement:40CFR 60.8(d), NSPS Subpart A**

**Item 54.1:**

The owner or operator shall provide the Administrator with prior notice of any performance test at least 30 days in advance of testing.

**Condition 55: Performance testing facilities.**

Effective between the dates of 08/01/2013 and 07/31/2018

**Applicable Federal Requirement:40CFR 60.8(e), NSPS Subpart A**

**Item 55.1:**

The following performance testing facilities shall be provided during all tests:

- 1) sampling ports adequate for tests methods applicable to such facility;
- 2) a safe sampling platform;
- 3) a safe access to the sampling platform; and
- 4) utilities for sampling and testing equipment.

**Condition 56: Number of required tests.**

Effective between the dates of 08/01/2013 and 07/31/2018

**Applicable Federal Requirement:40CFR 60.8(f), NSPS Subpart A**

**Item 56.1:**

Each performance test shall consist of three separate runs, at the specified duration required in the applicable test method. Compliance with all applicable standards shall be determined by using the arithmetic means of the results of the three runs.

**Condition 57: Applicability**

Effective between the dates of 08/01/2013 and 07/31/2018

**Applicable Federal Requirement:40CFR 60, NSPS Subpart III**

**Item 57.1:**

This Condition applies to:

Emission Unit: U00004

Process: P04

Emission Source: EG001

Emission Unit: U00005

Process: P05

Emission Source: FP001



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**Item 57.2:**

Facilities that have stationary compression ignition internal combustion engines must comply with applicable portions of 40 CFR 60 Subpart III.

**Condition 58: Compliance Demonstration**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:40CFR 60.4335, NSPS Subpart KKKK**

**Item 58.1:**

The Compliance Demonstration activity will be performed for the facility:  
The Compliance Demonstration applies to:

Emission Unit: U-00001

Emission Point: EP001

Emission Unit: U-00002

Emission Point: EP002

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 58.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

As an alternative to continuously monitoring the water or steam to fuel ratio, the facility shall install, certify, maintain, and operate a continuous emission monitoring system (CEMS) consisting of a NOx monitor and a diluents gas (oxygen or carbon dioxide) monitor, to determine hourly NOx emissions in parts per million (ppm).

Reference Test Method: EPA Approved

Monitoring Frequency: CONTINUOUS

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2014.

Subsequent reports are due every 6 calendar month(s).

**Condition 59: Compliance Demonstration**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:40CFR 60.4375(a), NSPS Subpart**

**KKKK**

**Item 59.1:**

The Compliance Demonstration activity will be performed for the facility:  
The Compliance Demonstration applies to:

Emission Unit: U-00001

Emission Unit: U-00002



**New York State Department of Environmental Conservation**

Permit ID: 3-3356-00136/00001

Facility DEC ID: 3335600136

**Item 59.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For each affected unit required to continuously monitor parameters or emissions, or to periodically determine the fuel sulfur content, reports of excess emissions and monitor downtime shall be submitted in accordance with 40 CFR 60.7(c). Excess emissions must be reported for all periods of unit operation, including start-up, shutdown, and malfunction.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2014.

Subsequent reports are due every 6 calendar month(s).

**Condition 60: Facility Subject to Title IV Acid Rain Regulations and Permitting Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:40 CFR Part 72**

**Item 60.1: This facility is subject to the Title IV Acid Rain Regulations found in 40 CFR Parts 72, 73, 75, 76, 77 and 78. The Acid Rain Permit is an attachment to this permit.**

**\*\*\*\* Emission Unit Level \*\*\*\***

**Condition 61: Compliance Demonstration Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR 227-1.3 (a)**

**Item 61.1:**

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-00001

Emission Unit: U-00002

Emission Unit: U-00003

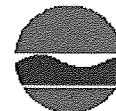
Emission Unit: U-00004

Emission Unit: U-00005

Emission Unit: U-00006

**Item 61.2:**

Compliance Demonstration shall include the following monitoring:



**New York State Department of Environmental Conservation**

Permit ID: 3-3356-00136/00001

Facility DEC ID: 3335600136

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE  
PARAMETERS AS SURROGATE

Monitoring Description:

No owner or operator of a combustion installation shall operate the installation in such a way to emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average in reference test Method 9 in Appendix A of 40 CFR 60.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2014.

Subsequent reports are due every 6 calendar month(s).

**Condition 62: Compliance Demonstration**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement: 6 NYCRR 227-1.3 (a)**

**Item 62.1:**

The Compliance Demonstration activity will be performed for the facility:  
The Compliance Demonstration applies to:

Emission Unit: U-00001  
Process: P3A

Emission Point: EP001  
Emission Source: CT001

Emission Unit: U-00002  
Process: P03

Emission Point: EP002  
Emission Source: CT002

**Item 62.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE  
PARAMETERS AS SURROGATE

Monitoring Description:

No person shall operate a stationary combustion installation which exhibits greater than 20 percent opacity (six minute average), except for one-six-minute period per hour of not more than 27 percent opacity.

The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

The permittee will conduct observations of visible emissions from the emission unit, process, etc. to which this condition applies at the monitoring frequency stated below while the process is in operation.



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Facility DEC ID: 3335600136

The permittee will investigate, in a timely manner, any instance where there is cause to believe that visible emissions have the potential to exceed the opacity standard.

The permittee shall investigate the cause, make any necessary corrections, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the standard continue, the permittee will conduct a Method 9 assessment within the next operating day of the sources associated with the potential noncompliance to determine the degree of opacity and will notify the NYSDEC if the method 9 test indicates that the opacity standard is not met.

Records of visible emissions observations (or any follow-up method 9 tests), investigations and corrective actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition, it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.

Parameter Monitored: OPACITY  
Upper Permit Limit: 20 percent  
Reference Test Method: EPA Method 9  
Monitoring Frequency: When firing distillate fuel oil  
Averaging Method: 6-MINUTE AVERAGE (METHOD 9)  
Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2014.  
Subsequent reports are due every 12 calendar month(s).

**Condition 63: Compliance Demonstration**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement: 40CFR 60.43c(c), NSPS Subpart Dc**

**Item 63.1:**  
The Compliance Demonstration activity will be performed for:

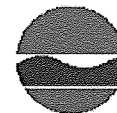
Emission Unit: U-00003

**Item 63.2:**  
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING  
Monitoring Description:

On and after the date on which the initial performance test is completed or required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility shall cause to be discharged into the atmosphere from that affected facility any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent





**New York State Department of Environmental Conservation**

Permit ID: 3-3356-00136/00001

Facility DEC ID: 3335600136

opacity. The facility shall perform a method 9 evaluation.

Parameter Monitored: OPACITY  
Upper Permit Limit: 20 percent  
Reference Test Method: Method 9  
Monitoring Frequency: SINGLE OCCURRENCE  
Averaging Method: 6 MINUTE AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 64: Compliance Demonstration**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:40CFR 60.48c(a), NSPS Subpart Dc**

**Item 64.1:**  
The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

**Item 64.2:**  
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

The owner and operator of each affected facility shall submit notification of the date of construction or reconstruction, anticipated startup, and actual startup, as provided by 40 CFR 60.7 of this part. This notification shall include:

- (1) The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility.
- (2) If applicable, a copy of any Federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under 40 CFR 60.42c., or 40 CFR 60.43c.
- (3) The annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired.

Monitoring Frequency: SINGLE OCCURRENCE  
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 65: Compliance Demonstration**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR 231-5.4**

**Item 65.1:**  
The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003  
Process: P3B



**New York State Department of Environmental Conservation**

Permit ID: 3-3356-00136/00001

Facility DEC ID: 3335600136

Regulated Contaminant(s):  
CAS No: 0NY998-00-0 VOC  
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 65.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS  
Monitoring Description:

Operation of the Auxiliary boiler is restricted to 2000 hours per year. Facility will maintain usage records and fuel consumption.

Work Practice Type: HOURS PER YEAR OPERATION  
Upper Permit Limit: 2000 hours  
Monitoring Frequency: DAILY  
Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY  
Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2014.  
Subsequent reports are due every 12 calendar month(s).

**Condition 66: Compliance Demonstration**  
Effective between the dates of 08/01/2013 and 07/31/2018

**Applicable Federal Requirement: 6 NYCRR 231-5.4**

**Item 66.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003  
Process: P3B

Regulated Contaminant(s):  
CAS No: 0NY998-00-0 VOC

**Item 66.2:**

Compliance Demonstration shall include the following monitoring:

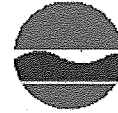
Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

LAER is 0.0038 lb/mmBtu. Will be achieved using good combustion controls. Emission testing to be performed within 180 days of startup.

Upper Permit Limit: 0.0038 pounds per million Btus  
Reference Test Method: Method 25A  
Monitoring Frequency: SINGLE OCCURRENCE  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 67: Compliance Demonstration**  
Effective between the dates of 08/01/2013 and 07/31/2018



**New York State Department of Environmental Conservation**

Permit ID: 3-3356-00136/00001

Facility DEC ID: 3335600136

**Applicable Federal Requirement:6 NYCRR 231-5.4**

**Item 67.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P3B

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 67.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

LAER is 0.0450 lb/mmBtu. Will be achieved using low NOx burners and flue gas re circulation. Emission testing to be performed within 180 days of startup.

Upper Permit Limit: 0.045 pounds per million Btus

Reference Test Method: Method 7E

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 68: Compliance Demonstration**

**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR 231-7.6**

**Item 68.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P3B

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

CAS No: 0NY075-00-5 PM-10

**Item 68.2:**

Compliance Demonstration shall include the following monitoring:

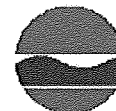
Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

BACT is 0.0063 lb/mmBtu. Will be achieved using low sulfur fuel. Emission testing to be performed within 180 days of startup.

Upper Permit Limit: 0.0063 pounds per million Btus

Reference Test Method: Method 201/201A and 202



**New York State Department of Environmental Conservation**

Permit ID: 3-3356-00136/00001

Facility DEC ID: 3335600136

Monitoring Frequency: SINGLE OCCURRENCE  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 69: Compliance Demonstration**  
Effective between the dates of 08/01/2013 and 07/31/2018

**Applicable Federal Requirement:6 NYCRR 231-7.6**

**Item 69.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003  
Process: P3B

Regulated Contaminant(s):  
CAS No: 007446-09-5 SULFUR DIOXIDE

**Item 69.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

BACT is 0.0022 lb/mmBtu. Will be achieved using low sulfur fuel.  
Emission testing to be performed within 180 days of startup.

Upper Permit Limit: 0.0022 pounds per million Btus  
Reference Test Method: EPA approved methods  
Monitoring Frequency: SINGLE OCCURRENCE  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 70: Compliance Demonstration**  
Effective between the dates of 08/01/2013 and 07/31/2018

**Applicable Federal Requirement:6 NYCRR 231-7.6**

**Item 70.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003  
Process: P3B

Regulated Contaminant(s):  
CAS No: 007664-93-9 SULFURIC ACID

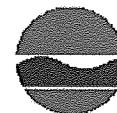
**Item 70.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

BACT is 0.0002 lb/mmBtu. Will be achieved using low sulfur fuel.



**New York State Department of Environmental Conservation**

Permit ID: 3-3356-00136/00001

Facility DEC ID: 3335600136

Emission testing to be performed within 180 days of startup.

Upper Permit Limit: 0.0002 pounds per million Btus  
Reference Test Method: EPA approved methods  
Monitoring Frequency: SINGLE OCCURRENCE  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 71: Compliance Demonstration**  
Effective between the dates of 08/01/2013 and 07/31/2018

**Applicable Federal Requirement: 6 NYCRR 231-7.6**

**Item 71.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003  
Process: P3B

Regulated Contaminant(s):  
CAS No: 000630-08-0 CARBON MONOXIDE

**Item 71.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

BACT is 0.0721 lb/mmBtu. Will be achieved using good combustion controls. Emission testing to be performed within 180 days of startup.

Upper Permit Limit: 0.0721 pounds per million Btus  
Reference Test Method: Method 10  
Monitoring Frequency: SINGLE OCCURRENCE  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 72: Alternative recordkeeping**  
Effective between the dates of 08/01/2013 and 07/31/2018

**Applicable Federal Requirement: 40CFR 60.48c(g)(2), NSPS Subpart Dc**

**Item 72.1:**

This Condition applies to Emission Unit: U-00003  
Process: P3B Emission Source:  
AUX01

**Item 72.2:** As an alternative to meeting the requirements of 40 CFR 60.48c(g)(1), the owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in 40 CFR 60.48c(f) to demonstrate compliance with the SO<sub>2</sub> standard, fuels not subject to



**New York State Department of Environmental Conservation**

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an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month.

**Condition 73: Compliance Demonstration**  
Effective between the dates of 08/01/2013 and 07/31/2018

**Applicable Federal Requirement:6 NYCRR 231-5.4**

**Item 73.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00004  
Process: P04

Regulated Contaminant(s):  
CAS No: 0NY998-00-0 VOC

**Item 73.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

LAER is 0.0331 lb/mmBtu. Will be achieved using good combustion controls. Emission testing to be performed upon request of the Department.

Upper Permit Limit: 0.0331 pounds per million Btus

Reference Test Method: Method 25A

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 74: Compliance Demonstration**  
Effective between the dates of 08/01/2013 and 07/31/2018

**Applicable Federal Requirement:6 NYCRR 231-5.4**

**Item 74.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00004  
Process: P04

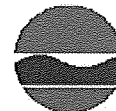
Regulated Contaminant(s):  
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 74.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:



**New York State Department of Environmental Conservation**

Permit ID: 3-3356-00136/00001

Facility DEC ID: 3335600136

LAER is 4.77 grams per brake horsepower-hour. Will be achieved using good combustion controls. Emission testing to be performed upon request of the Department.

Upper Permit Limit: 4.77 grams per brake horsepower-hour  
Reference Test Method: Method 7E  
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 75: Compliance Demonstration**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR 231-7.6**

**Item 75.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00004  
Process: P04

Regulated Contaminant(s):  
CAS No: 0NY075-00-0 PARTICULATES  
CAS No: 0NY075-00-5 PM-10

**Item 75.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

BACT is 0.03 g/hp-hr. Will be achieved using low sulfur fuel.  
Emission testing to be performed at the request of the Department..

Upper Permit Limit: 0.03 grams per brake horsepower-hour  
Reference Test Method: Method 201/201A and 202  
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 76: Compliance Demonstration**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

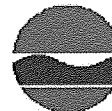
**Applicable Federal Requirement:6 NYCRR 231-7.6**

**Item 76.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00004  
Process: P04

Regulated Contaminant(s):  
CAS No: 007446-09-5 SULFUR DIOXIDE



**New York State Department of Environmental Conservation**

Permit ID: 3-3356-00136/00001

Facility DEC ID: 3335600136

**Item 76.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

BACT is 0.0014 lb/mmBtu. Will be achieved using low sulfur fuel.

Emission testing to be performed at the request of the Department..

Upper Permit Limit: 0.0014 pounds per million Btus

Reference Test Method: EPA approved methods

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 77: Compliance Demonstration**

**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR 231-7.6**

**Item 77.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00004

Process: P04

Regulated Contaminant(s):

CAS No: 007664-93-9 SULFURIC ACID

**Item 77.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

BACT is 0.00003 lb/mmBtu. Will be achieved using low sulfur fuel.

Emission testing to be performed at the request of the Department..

Upper Permit Limit: 0.00003 pounds per million Btus

Reference Test Method: EPA approved methods

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 78: Compliance Demonstration**

**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR 231-7.6**

**Item 78.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00004





**New York State Department of Environmental Conservation**

Permit ID: 3-3356-00136/00001

Facility DEC ID: 3335600136

Process: P04

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 78.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

BACT is 0.45 g/hp-hr. Will be achieved using good combustion controls. Emission testing to be performed at the request of the Department.

Upper Permit Limit: 0.45 grams per brake horsepower-hour

Reference Test Method: Method 10

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 79: Compliance Demonstration**

Effective between the dates of 08/01/2013 and 07/31/2018

Applicable Federal Requirement: 6 NYCRR 231-5.4

**Item 79.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00005

Process: P05

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 79.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

LAER is 0.857 pounds per million Btus. Will be achieved using good combustion controls. Emission testing to be performed upon request of the Department.

Upper Permit Limit: 0.857 pounds per million Btus

Reference Test Method: Method 7E

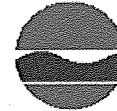
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 80: Compliance Demonstration**

Effective between the dates of 08/01/2013 and 07/31/2018



**New York State Department of Environmental Conservation**

Permit ID: 3-3356-00136/00001

Facility DEC ID: 3335600136

**Applicable Federal Requirement:6 NYCRR 231-5.4**

**Item 80.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00005  
Process: P05

Regulated Contaminant(s):  
CAS No: 0NY998-00-0 VOC

**Item 80.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

LAER is 0.3612 lb/mmBtu. Will be achieved using good combustion controls. Emission testing to be performed upon request of the Department.

Upper Permit Limit: 0.3612 pounds per million Btus

Reference Test Method: Method 25A

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 81: Compliance Demonstration**

**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR 231-7.6**

**Item 81.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00005  
Process: P05

Regulated Contaminant(s):  
CAS No: 000630-08-0 CARBON MONOXIDE

**Item 81.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

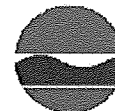
Monitoring Description:

BACT is 0.75 lbs/mmBtus.. Will be achieved using good combustion controls. Emission testing to be performed at the request of the Department..

Upper Permit Limit: 0.75 pounds per million Btus

Reference Test Method: Method 10

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION



**New York State Department of Environmental Conservation**

Permit ID: 3-3356-00136/00001

Facility DEC ID: 3335600136

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 82: Compliance Demonstration**  
Effective between the dates of 08/01/2013 and 07/31/2018

**Applicable Federal Requirement: 6 NYCRR 231-7.6**

**Item 82.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00005

Process: P05

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

CAS No: 0NY075-00-5 PM-10

**Item 82.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

BACT is 0.043 lb/mmBtus.. Will be achieved using low sulfur fuel.

Emission testing to be performed at the request of the Department..

Upper Permit Limit: 0.043 pounds per million Btus

Reference Test Method: Method 201/201A and 202

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 83: Compliance Demonstration**  
Effective between the dates of 08/01/2013 and 07/31/2018

**Applicable Federal Requirement: 6 NYCRR 231-7.6**

**Item 83.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00005

Process: P05

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

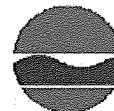
**Item 83.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

BACT is 0.0014 lb/mmBtu. Will be achieved using low sulfur fuel.



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Emission testing to be performed at the request of the Department..

Upper Permit Limit: 0.0014 pounds per million Btus  
Reference Test Method: EPA approved methods  
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 84: Compliance Demonstration**  
Effective between the dates of 08/01/2013 and 07/31/2018

**Applicable Federal Requirement:6 NYCRR 231-7.6**

**Item 84.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00005  
Process: P05

Regulated Contaminant(s):  
CAS No: 007664-93-9 SULFURIC ACID

**Item 84.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

BACT is 0.00003 lb/mmBtu. Will be achieved using low sulfur fuel.  
Emission testing to be performed at the request of the Department..

Upper Permit Limit: 0.00003 pounds per million Btus  
Reference Test Method: EPA approved methods  
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 85: Compliance Demonstration**  
Effective between the dates of 08/01/2013 and 07/31/2018

**Applicable Federal Requirement:6 NYCRR 231-5.4**

**Item 85.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00006  
Process: P06

Regulated Contaminant(s):  
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 85.2:**

Compliance Demonstration shall include the following monitoring:



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Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

LAER is 0.058 pounds per million Btus for each individual gas heater.  
Will be achieved using forced draft low NOx Burner. Emission testing  
to be performed upon request of the Department.

Upper Permit Limit: 0.058 pounds per million Btus

Reference Test Method: Method 7E

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 86: Compliance Demonstration**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR 231-5.4**

**Item 86.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00006

Process: P06

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

**Item 86.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

LAER is 0.011 lb/mmBtu. Will be achieved using good combustion  
controls. Emission testing to be performed upon request of the  
Department.

Upper Permit Limit: 0.011 pounds per million Btus

Reference Test Method: Method 25A

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 87: Compliance Demonstration**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable Federal Requirement:6 NYCRR 231-7.6**

**Item 87.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00006

Process: P06







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**STATE ONLY ENFORCEABLE CONDITIONS**

**\*\*\*\* Facility Level \*\*\*\***

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

**This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability**

**Item A: Public Access to Recordkeeping for Facilities With State Facility Permits - 6 NYCRR 201-1.10 (a)**

Where facility owners and/or operators keep records pursuant to compliance with the requirements of 6 NYCRR Subpart 201-5.4, and/or the emission capping requirements of 6 NYCRR Subpart 201-7, the Department will make such records available to the public upon request in accordance with 6 NYCRR Part 616 - Public Access to Records. Facility owners and/or operators must submit the records required to comply with the request within sixty working days of written notification by the Department.

**Item B: General Provisions for State Enforceable Permit Terms and Condition - 6 NYCRR Part 201-5**

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

**STATE ONLY APPLICABLE REQUIREMENTS**

**The following conditions are state only enforceable.**

**Condition 91: Contaminant List**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable State Requirement: ECL 19-0301**

**Item 91.1:**

Emissions of the following contaminants are subject to contaminant specific requirements in this



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permit(emission limits, control requirements or compliance monitoring conditions).

CAS No: 000124-38-9  
Name: CARBON DIOXIDE

CAS No: 000630-08-0  
Name: CARBON MONOXIDE

CAS No: 007446-09-5  
Name: SULFUR DIOXIDE

CAS No: 007664-41-7  
Name: AMMONIA

CAS No: 007664-93-9  
Name: SULFURIC ACID

CAS No: 0NY075-00-0  
Name: PARTICULATES

CAS No: 0NY075-00-5  
Name: PM-10

CAS No: 0NY075-02-5  
Name: PM 2.5

CAS No: 0NY210-00-0  
Name: OXIDES OF NITROGEN

CAS No: 0NY998-00-0  
Name: VOC

**Condition 92: Unavoidable noncompliance and violations**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable State Requirement:6 NYCRR 201-1.4**

**Item 92.1:**

At the discretion of the commissioner a violation of any applicable emission standard for necessary scheduled equipment maintenance, start-up/shutdown conditions and malfunctions or upsets may be excused if such violations are unavoidable. The following actions and recordkeeping and reporting requirements must be adhered to in such circumstances.

(a) The facility owner and/or operator shall compile and maintain records of all equipment maintenance or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the commissioner's representative when requested to do so in writing or when so required by a condition of a permit issued for the corresponding air contamination source except where conditions elsewhere in this permit which contain more stringent reporting and notification provisions for an applicable requirement, in which case they supercede those stated here. Such reports shall describe why the violation was unavoidable and shall include the time, frequency and duration of the maintenance and/or start-up/shutdown activities and the identification of air



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contaminants, and the estimated emission rates. If a facility owner and/or operator is subject to continuous stack monitoring and quarterly reporting requirements, he need not submit reports for equipment maintenance or start-up/shutdown for the facility to the commissioner's representative.

(b) In the event that emissions of air contaminants in excess of any emission standard in 6 NYCRR Chapter III Subchapter A occur due to a malfunction, the facility owner and/or operator shall report such malfunction by telephone to the commissioner's representative as soon as possible during normal working hours, but in any event not later than two working days after becoming aware that the malfunction occurred. Within 30 days thereafter, when requested in writing by the commissioner's representative, the facility owner and/or operator shall submit a written report to the commissioner's representative describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates. These reporting requirements are superceded by conditions elsewhere in this permit which contain reporting and notification provisions for applicable requirements more stringent than those above.

(c) The Department may also require the owner and/or operator to include in reports described under (a) and (b) above an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions depending on the deviation of the malfunction and the air contaminants emitted.

(d) In the event of maintenance, start-up/shutdown or malfunction conditions which result in emissions exceeding any applicable emission standard, the facility owner and/or operator shall take appropriate action to prevent emissions which will result in contravention of any applicable ambient air quality standard. Reasonably available control technology, as determined by the commissioner, shall be applied during any maintenance, start-up/shutdown or malfunction condition subject to this paragraph.

(e) In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets.

**Condition 93: Emission Unit Definition**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable State Requirement: 6 NYCRR Subpart 201-5**

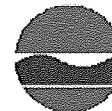
**Item 93.1:**

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: U-00001

Emission Unit Description:

ONE F CLASS COMBUSTION TURBINE RATED AT 1998 MMBTU/HR AT 51 DEGREES F (2234 MMBTU/HR AT -5 DEGREES F) ON NATURAL GAS AND 2145 MMBTU/HR AT -5 DEGREES F ON FUEL OIL (.0015% SULFUR). THE TURBINE IS EQUIPPED WITH DRY LOW-NOX COMBUSTORS, STEAM INJECTION, SCR AND OXIDATION CATALYST EMISSION CONTROLS. THIS EMISSION UNIT ALSO CONTAINS A NATURAL GAS-FIRED DUCT BURNER RATED AT A MAXIMUM CAPACITY OF 500 MMBTU/HR.



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Building(s): ACC01  
GEN01  
HRSG01

**Item 93.2:**

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: U-00002

Emission Unit Description:

ONE CLASS-F COMBUSTION TURBINE RATED AT 1998 MMBTU/HR AT 51 DEGREES F (2234 MMBTU/HR AT -5 DEGREES F) ON NATURAL GAS AND 2145 MMBTU/HR AT -5 DEGREES F ON FUEL OIL (0.0015% SULFUR). THE TURBINE IS EQUIPPED WITH DRY LOW-NOX COMBUSTORS, STEAM INJECTION, SCR AND OXIDATION CATALYST EMISSION CONTROLS. THIS EMISSION UNIT ALSO CONTAINS A NATURAL GAS-FIRED DUCT BURNER RATED AT A MAXIMUM CAPACITY OF 500 MMBTU/HR.

Building(s): ACC02  
GEN02  
HRSG02

**Item 93.3:**

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: U-00003

Emission Unit Description:

ONE 73.5 MMBTU/HR AUXILIARY BOILER THAT WILL FIRE NATURAL GAS EXCLUSIVELY. THE BOILER HOURS WILL BE LIMITED TO 2000 HOURS PER YEAR. THE BOILER WILL OPERATE PRIMARILY TO ASSIST WITH STARTUPS AND SHUTDOWNS OF THE TURBINES.

Building(s): GEN01

**Item 93.4:**

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: U-00004

Emission Unit Description:

Emergency Diesel Generator operating less than 500 hours per year.

**Item 93.5:**

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: U-00005

Emission Unit Description:

Emergency Fire water Pump

**Item 93.6:**

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: U-00006

Emission Unit Description:

Two Fuel Gas Heaters

**Condition 94: Visible Emissions Limited**



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Permit ID: 3-3356-00136/00001

Facility DEC ID: 3335600136

**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable State Requirement:6 NYCRR 211.2**

**Item 94.1:**

Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, no person shall cause or allow any air contamination source to emit any material having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

**Condition 95: CO2 Budget Trading Program - Excess emission requirements**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable State Requirement:6 NYCRR 242-1.5**

**Item 95.1:**

The owners and operators of a CO2 budget source that has excess emissions in any control period shall:

- (1) forfeit the CO2 allowances required for deduction under 6 NYCRR Part 242-6.5(d)(1), provided CO2 offset allowances may not be used to cover any part of such excess emissions; and
- (2) pay any fine, penalty, or assessment or comply with any other remedy imposed under 6 NYCRR Part 242-6.5(d)(2).

**Condition 96: Compliance Demonstration**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable State Requirement:6 NYCRR 242-1.5**

**Item 96.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 96.2:**

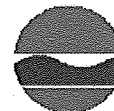
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owners and operators and, to the extent applicable, the CO2 authorized account representative of each CO2 budget source and each CO2 budget unit at the source shall comply with the monitoring requirements of Subpart 242-8. The emissions measurements recorded and reported in accordance with Subpart 242-8 of this Part shall be used to determine compliance by the unit with the following CO2 requirements:

- (1) The owners and operators of each CO2 budget source and each CO2 budget unit at the source shall hold CO2 allowances available for compliance deductions under Section 242-6.5, as of the CO2 allowance transfer deadline, in the source's compliance account in an amount not less than the total CO2 emissions for the control period from all CO2 budget units at the source, as determined in accordance with Subparts 242-6 and 242-8.



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(2) Each ton of CO<sub>2</sub> emitted in excess of the CO<sub>2</sub> budget emissions limitation shall constitute a separate violation of this Part and applicable state law.

(3) A CO<sub>2</sub> budget unit shall be subject to the requirements specified in item 1 starting on the later, of January 1, 2009 or the date on which the unit commences operation.

(4) CO<sub>2</sub> allowances shall be held in, deducted from, or transferred among CO<sub>2</sub> Allowance Tracking System accounts in accordance with Subparts 242-5, 242-6, and 242-7, and Section 242-10.7.

(5) A CO<sub>2</sub> allowance shall not be deducted, in order to comply with the requirements specified in item 1, for a control period that ends prior to the allocation year for which the CO<sub>2</sub> allowance was allocated. A CO<sub>2</sub> offset allowance shall not be deducted, in order to comply with the requirements under item 1, beyond the applicable percent limitations set out in 6NYCRR Part 242-6.5(a)(3).

(6) A CO<sub>2</sub> allowance under the CO<sub>2</sub> Budget Trading Program is a limited authorization by the Department or a participating state to emit one ton of CO<sub>2</sub> in accordance with the CO<sub>2</sub> Budget Trading Program. No provision of the CO<sub>2</sub> Budget Trading Program, the CO<sub>2</sub> budget permit application, or the CO<sub>2</sub> budget permit or any provision of law shall be construed to limit the authority of the Department or a participating state to terminate or limit such authorization.

(7) A CO<sub>2</sub> allowance under the CO<sub>2</sub> Budget Trading Program does not constitute a property right.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2014.

Subsequent reports are due every 6 calendar month(s).

**Condition 97: Compliance Demonstration**  
**Effective between the dates of 08/01/2013 and 07/31/2018**

**Applicable State Requirement: 6 NYCRR 242-1.5**

**Item 97.1:**

The Compliance Demonstration activity will be performed for the Facility.

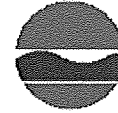
**Item 97.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owners and operators of the CO<sub>2</sub> budget source and each CO<sub>2</sub> budget unit at the source shall keep on site at the source each of the following documents for a period of 10 years from the date the



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document is created. This period may be extended for cause, at any time prior to the end of 10 years, in writing by the department.

(i) The account certificate of representation for the CO2 authorized account representative for the source and each CO2 budget unit at the source and all documents that demonstrate the truth of the statements in the account certificate of representation, in accordance with 6 NYCRR Part 242-2.4, provided that the certificate and documents shall be retained on site at the source beyond such 10-year period until such documents are superseded because of the submission of a new account certificate of representation.

(ii) All emissions monitoring information, in accordance with Subpart 242-8 and 40 CFR 75.57.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CO2 Budget Trading Program.

(iv) Copies of all documents used to complete a CO2 budget permit application and any other submission under the CO2 Budget Trading Program or to demonstrate compliance with the requirements of the CO2 Budget Trading Program.

The CO2 authorized account representative of a CO2 budget source and each CO2 budget unit at the source shall submit the reports and compliance certifications required under the CO2 Budget Trading Program, including those under Subpart 242-4.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2014.  
Subsequent reports are due every 6 calendar month(s).

**\*\*\*\* Emission Unit Level \*\*\*\***

**Condition 98: Emission Point Definition By Emission Unit**  
Effective between the dates of 08/01/2013 and 07/31/2018

**Applicable State Requirement: 6 NYCRR Subpart 201-5**

**Item 98.1:**

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: U-00001

Emission Point: EP001

Height (ft.): 275

Diameter (in.): 228







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Facility DEC ID: 3335600136

**Item 99.1:**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00001

Process: P1A

Source Classification Code: 2-01-002-01

Process Description:

REPRESENTS NATURAL GAS FIRING IN THE CLASS-F COMBUSTION TURBINE, WHICH IS RATED AT 2,234 mmBTU/hr AT -5 DEGREES F (MAXIMUM HEAT INPUT SCENARIO). DRY LOW-NOX COMBUSTION TECHNOLOGY, SELECTIVE CATALYTIC REDUCTION (SCR) AND OXIDATION CATALYST WILL BE USED TO MINIMIZE EMISSIONS OF NOX, CO, AND VOC. THE QUANTITY PER HOUR THROUGHPUT LISTED BELOW REPRESENTS THE

MAXIMUM

FIRING RATE (2,234 MMBtu/hr AT -5 DEGREES F) AND THE QUANTITY PER YEAR THROUGHPUT REPRESENTS THE TURBINE AT THE FIRING RATE AT THE ANNUAL AVERAGE AMBIENT TEMPERATURE OF 51 DEGREES F (1,998 MMBtu/hr). NATURAL GAS HIGHER HEATING VALUE IS ASSUMED TO BE 1,048 BTU/CUBIC FOOT.

Emission Source/Control: CT001 - Combustion

Design Capacity: 2,234 million Btu per hour

Emission Source/Control: DLN01 - Control

Control Type: DRY LOW NOx BURNER

Emission Source/Control: OXY01 - Control

Control Type: CATALYTIC OXIDATION

Emission Source/Control: SCR01 - Control

Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

**Item 99.2:**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00001

Process: P2A

Source Classification Code: 2-01-002-01

Process Description:

REPRESENTS COMBINED NATURAL GAS FIRING IN THE CLASS-F COMBUSTION TURBINE, WHICH IS RATED AT 2,234 mmBTU/hr AT -5 DEGREES F (MAXIMUM HEAT INPUT SCENARIO) AND NATURAL GAS FIRING IN THE DUCT BURNER, WHICH IS RATED AT 500 mmBTU/hr. DRY LOW-NOX COMBUSTION TECHNOLOGY, SELECTIVE CATALYTIC REDUCTION (SCR) AND OXIDATION CATALYST WILL BE USED TO MINIMIZE EMISSIONS OF NOX, CO, AND VOC. THE QUANTITY PER HOUR THROUGHPUT LISTED BELOW REPRESENTS THE MAXIMUM FIRING RATE (2,234 MMBtu/hr AT -5 DEGREES F) OF THE TURBINE PLUS THE DUCT BURNER AT RATED CAPACITY (500 mmBTU/hr) AND THE QUANTITY PER YEAR THROUGHPUT REPRESENTS 8,760 HOURS OF NATURAL GAS FIRING IN THE TURBINE AT THE ANNUAL AVERAGE AMBIENT



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Facility DEC ID: 3335600136

TEMPERATURE OF 51 DEGREES F (1,998 MMBtu/hr). NATURAL GAS HIGHER HEATING VALUE IS ASSUMED TO BE 1,048 BTU/CUBIC FOOT.

Emission Source/Control: CT001 - Combustion  
Design Capacity: 2,234 million Btu per hour

Emission Source/Control: DB001 - Combustion  
Design Capacity: 500 million Btu per hour

Emission Source/Control: DLN01 - Control  
Control Type: DRY LOW NO<sub>x</sub> BURNER

Emission Source/Control: OXY01 - Control  
Control Type: CATALYTIC OXIDATION

Emission Source/Control: SCR01 - Control  
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

**Item 99.3:**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00001

Process: P3A

Source Classification Code: 2-01-001-01

Process Description:

REPRESENTS FUEL OIL FIRING IN THE CLASS-F COMBUSTION TURBINE, WHICH IS RATED AT 2,145 mmBTU/hr AT -5 DEGREES F (MAXIMUM HEAT INPUT SCENARIO). DRY LOW-NO<sub>x</sub> COMBUSTION TECHNOLOGY, STEAM OR WATER INJECTION, SELECTIVE CATALYTIC REDUCTION (SCR) AND OXIDATION CATALYST WILL BE USED TO MINIMIZE EMISSIONS OF NO<sub>x</sub>, CO, AND VOC. THE QUANTITY PER HOUR THROUGHPUT LISTED BELOW REPRESENTS THE MAXIMUM FIRING RATE (2,145 MMBtu/hr AT -5 DEGREES F) AND THE QUANTITY PER YEAR THROUGHPUT REPRESENTS 720 HOURS OF FUEL OIL FIRING AT THE FIRING RATE AT -5 DEGREES F AMBIENT TEMPERATURE. FUEL OIL HIGHER HEATING VALUE IS ASSUMED TO BE 139,728 BTU/GALLON.

Emission Source/Control: CT001 - Combustion  
Design Capacity: 2,234 million Btu per hour

Emission Source/Control: DLN01 - Control  
Control Type: DRY LOW NO<sub>x</sub> BURNER

Emission Source/Control: OXY01 - Control  
Control Type: CATALYTIC OXIDATION

Emission Source/Control: SCR01 - Control  
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: ST101 - Control



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Permit ID: 3-3356-00136/00001

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Control Type: STEAM OR WATER INJECTION

**Item 99.4:**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00002

Process: P01

Source Classification Code: 2-01-002-01

Process Description:

REPRESENTS NATURAL GAS FIRING IN THE CLASS-F COMBUSTION TURBINE, WHICH IS RATED AT 2,234 mmBTU/hr AT -5 DEGREES F (MAXIMUM HEAT INPUT SCENARIO). DRY LOW-NOX COMBUSTION TECHNOLOGY, SELECTIVE CATALYTIC REDUCTION (SCR) AND OXIDATION CATALYST WILL BE USED TO MINIMIZE EMISSIONS OF NOX, CO, AND VOC. THE QUANTITY PER HOUR THROUGHPUT LISTED BELOW REPRESENTS THE

MAXIMUM

FIRING RATE (2,234 MMBtu/hr AT -5 DEGREES F) AND THE QUANTITY PER YEAR THROUGHPUT REPRESENTS THE TURBINE AT THE FIRING RATE AT THE ANNUAL AVERAGE AMBIENT TEMPERATURE OF 51 DEGREES F (1,998 MMBtu/hr). NATURAL GAS HIGHER HEATING VALUE IS ASSUMED TO BE 1,048 BTU/CUBIC FOOT.

Emission Source/Control: CT002 - Combustion

Design Capacity: 2,234 million Btu per hour

Emission Source/Control: DLN02 - Control

Control Type: DRY LOW NOx BURNER

Emission Source/Control: OXY02 - Control

Control Type: CATALYTIC OXIDATION

Emission Source/Control: SCR02 - Control

Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

**Item 99.5:**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00002

Process: P02

Source Classification Code: 2-01-002-01

Process Description:

REPRESENTS COMBINED NATURAL GAS FIRING IN THE CLASS-F COMBUSTION TURBINE, WHICH IS RATED AT 2,234 mmBTU/hr AT -5 DEGREES F (MAXIMUM HEAT INPUT SCENARIO) AND NATURAL GAS FIRING IN THE DUCT BURNER, WHICH IS RATED AT 500 mmBTU/hr. DRY LOW-NOX COMBUSTION TECHNOLOGY, SELECTIVE CATALYTIC REDUCTION (SCR) AND OXIDATION CATALYST WILL BE USED TO MINIMIZE EMISSIONS OF NOX, CO, AND VOC. THE QUANTITY PER HOUR THROUGHPUT LISTED BELOW REPRESENTS THE MAXIMUM FIRING RATE (2,234 MMBtu/hr AT -5 DEGREES F) OF THE TURBINE PLUS THE DUCT BURNER AT RATED CAPACITY (500 mmBTU/hr) AND THE QUANTITY PER YEAR



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THROUGHPUT REPRESENTS 8,760 HOURS OF NATURAL GAS FIRING IN THE TURBINE AT THE ANNUAL AVERAGE AMBIENT TEMPERATURE OF 51 DEGREES F (1,998 MMBtu/hr). NATURAL GAS HIGHER HEATING VALUE IS ASSUMED TO BE 1,048 BTU/CUBIC FOOT.

Emission Source/Control: CT002 - Combustion  
Design Capacity: 2,234 million Btu per hour

Emission Source/Control: DB002 - Combustion  
Design Capacity: 500 million Btu per hour

Emission Source/Control: DLN02 - Control  
Control Type: DRY LOW NO<sub>x</sub> BURNER

Emission Source/Control: OXY02 - Control  
Control Type: CATALYTIC OXIDATION

Emission Source/Control: SCR02 - Control  
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

**Item 99.6:**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00002

Process: P03

Source Classification Code: 2-01-001-01

Process Description:

REPRESENTS FUEL OIL FIRING IN THE CLASS-F COMBUSTION TURBINE, WHICH IS RATED AT 2,145 mmBTU/hr AT -5 DEGREES F (MAXIMUM HEAT INPUT SCENARIO). DRY LOW-NO<sub>x</sub> COMBUSTION TECHNOLOGY, STEAM OR WATER INJECTION, SELECTIVE CATALYTIC REDUCTION (SCR) AND OXIDATION CATALYST WILL BE USED TO MINIMIZE EMISSIONS OF NO<sub>x</sub>, CO, AND VOC. THE QUANTITY PER HOUR THROUGHPUT LISTED BELOW REPRESENTS THE MAXIMUM FIRING RATE (2,145 MMBtu/hr AT -5 DEGREES F) AND THE QUANTITY PER YEAR THROUGHPUT REPRESENTS 720 HOURS OF FUEL OIL FIRING AT THE FIRING RATE AT -5 DEGREES F AMBIENT TEMPERATURE. FUEL OIL HIGHER HEATING VALUE IS ASSUMED TO BE 139,728 BTU/GALLON.

Emission Source/Control: CT002 - Combustion  
Design Capacity: 2,234 million Btu per hour

Emission Source/Control: DLN02 - Control  
Control Type: DRY LOW NO<sub>x</sub> BURNER

Emission Source/Control: OXY02 - Control  
Control Type: CATALYTIC OXIDATION

Emission Source/Control: SCR02 - Control  
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)





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Emission Source/Control: FGH01 - Combustion  
Design Capacity: 5.02 million Btu per hour

Emission Source/Control: FGH02 - Combustion  
Design Capacity: 5.02 million Btu per hour

**Condition 100: Compliance Demonstration**  
Effective between the dates of 08/01/2013 and 07/31/2018

**Applicable State Requirement: 6 NYCRR 251.3 (a)**

**Item 100.1:**

The Compliance Demonstration activity will be performed for the facility:  
The Compliance Demonstration applies to:

Emission Unit: U-00001                      Emission Point: EP001

Emission Unit: U-00002                      Emission Point: EP002

Regulated Contaminant(s):  
CAS No: 000124-38-9                      CARBON DIOXIDE

**Item 100.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Owners or operators of boilers that are permitted to fire greater than 70 percent fossil fuel, combined cycle combustion turbines, or stationary internal combustion engines that fire only gaseous fuel, except for those emission sources directly attached to a gasifier, are required to meet an emission rate of 925 pounds of CO<sub>2</sub> per MW hour gross electrical output (output-based limit). These emission limits are measured on a 12-month rolling average basis, calculated by dividing the annual total of CO<sub>2</sub> emissions over the relevant 12-month period by the annual total (gross) MW generated (output-based limit). The owner or operator must maintain all records associated with these requirements on site or at a location acceptable to the Department for a minimum of five years.

Manufacturer Name/Model Number: CO2 Continuous Monitor

Parameter Monitored: CARBON DIOXIDE

Upper Permit Limit: 925 pounds per megawatt hour

Monitoring Frequency: CONTINUOUS

Averaging Method: 12 MONTH AVERAGE - ROLLED MONTHLY

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2013.

Subsequent reports are due every 3 calendar month(s).

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