



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

**IDENTIFICATION INFORMATION**

Permit Type: Air Title V Facility  
Permit ID: 2-6301-00185/00009  
Mod 0 Effective Date: 09/28/2007 Expiration Date: 09/27/2012  
  
Mod 1 Effective Date: 02/05/2009 Expiration Date: 09/27/2012  
  
Mod 2 Effective Date: Expiration Date:

Permit Type: Title IV (Phase II Acid Rain)  
Permit ID: 2-6301-00185/00017  
Effective Date: Expiration Date:

Permit Issued To: ASTORIA GENERATING COMPANY LP  
18-01 20TH AVE  
LONG ISLAND CITY, NY 11105-4271

Contact: ANDREW W OLIVER  
US POWER GENERATING COMPANY LLC  
3650 JAMES ST STE 206  
SYRACUSE, NY 13206  
(315) 433-1371

Facility: ASTORIA GENERATING STATION  
18-01 20TH AVE  
ASTORIA, NY 11105

Contact: NATALIE DUBANOWITZ  
ASTORIA GENERATING COMPANY LP  
18-01 20TH AVE  
LONG ISLAND CITY, NY 11105-4271  
(718) 204-3918

Description:  
The action involves two distinct components: the installation of an approximately 410 megawatt (MW) new combined cycle combustion turbine unit, and an emissions reduction strategy for the existing Astoria Generating Station (AGS). The new combustion turbine will be designed to start up and shutdown quickly, will utilize dry cooling, and have a stack height of approximately 180 feet. The project will be built on approximately 7.5 acres of the existing Fuel Oil Tank Farm (FOTF) parcel at the AGS within an area zoned for heavy manufacturing (industrial) use (M3-1). The new combustion turbine will be a Siemens H Series that is dual fuel-capable and burn natural gas as a primary fuel with ultra low sulfur diesel as backup fuel to be used for up to



approximately 30 days annually. The use of ultra low sulfur diesel as backup fuel will require the addition of a new oil storage tank. Fuel delivery is currently via barge, and the Luyster Creek Energy Project will be electrically interconnecting into the grid via existing connections from the current units at AGS. The combustion turbine will operate in combined cycle mode and utilize an 84.7 mmBtu/hr gas only fired duct burner for supplemental firing. The project will also include the addition of a 30 mmBtu/hr heat input natural gas fired only auxiliary boiler

The project will not significantly increase emissions from the facility. The facility will create future emission reduction credits (ERCs) which will be used as offsets to net the facility's emissions of all criteria contaminants below the significant increase thresholds. The ERCs used for netting will be generated by the shutdown of boiler 20 and the curtailment of operations of boilers 40 and 50 through federally enforceable permit limits. The total proposed ERCs in tons per year (tpy) to be created are: 81.1 NO<sub>x</sub>, 44.17 PM, 44.17 PM-10, 44.17 PM-2.5, and 2.23 VOC. Along with these ERCs the new project will cap to the following emission levels in tpy: 105.6 NO<sub>x</sub>, 54.07 PM, 54.07 PM-10, 54.07 PM-2.5, 26.23 VOC.

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: JOHN J FERGUSON  
625 BROADWAY  
ALBANY, NY 12233

Authorized Signature: \_\_\_\_\_ Date: \_\_\_ / \_\_\_ / \_\_\_



**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.



**LIST OF CONDITIONS**

**DEC GENERAL CONDITIONS**

**General Provisions**

- Facility Inspection by the Department
- Relationship of this Permit to Other Department Orders and Determinations
  - Applications for permit renewals, modifications and transfers
  - Permit modifications, suspensions or revocations by the Department
  - Permit modifications, suspensions or revocations by the Department
  - Permit modifications, suspensions or revocations by the Department

**Facility Level**

- Submission of application for permit modification or renewal -  
REGION 2 HEADQUARTERS



**DEC GENERAL CONDITIONS**

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

**For the purpose of your Title V permit, the following section contains state-only enforceable terms and conditions.**

**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.

**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.

**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:**

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.

**Condition 2-1: Permit modifications, suspensions or revocations by the Department**

**Applicable State Requirement: 6 NYCRR 621.13**

**Item 2-1.1:**

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;
- 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.

**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 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;
- 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.

**Condition 2-2: Permit modifications, suspensions or revocations by the Department**

**Applicable State Requirement: 6 NYCRR 621.13**

**Item 2-2.1:**

The Department reserves the right 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;
- 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.

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

**Condition 5: Submission of application for permit modification or renewal - REGION 2 HEADQUARTERS**

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

**Item 5.1:**

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

NYSDEC Regional Permit Administrator  
Region 2 Headquarters  
Division of Environmental Permits  
1 Hunters Point Plaza, 4740 21st Street  
Long Island City, NY 11101-5407  
(718) 482-4997

**New York State Department of Environmental Conservation**

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185



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

**ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT**

**IDENTIFICATION INFORMATION**

Permit Issued To: ASTORIA GENERATING COMPANY LP  
18-01 20TH AVE  
LONG ISLAND CITY, NY 11105-4271

Facility: ASTORIA GENERATING STATION  
18-01 20TH AVE  
ASTORIA, NY 11105

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

Permit Effective Date:

Permit Expiration Date:





## LIST OF CONDITIONS

### FEDERALLY ENFORCEABLE CONDITIONS

#### Facility Level

- 2-1 6 NYCRR 201-6.5 (a) (7): Fees
- 2-2 6 NYCRR 215.2: Open Fires - Prohibitions
- 2-3 6 NYCRR 202-1.1: Required Emissions Tests
- 20 : Visible Emissions Limited
- 26 6 NYCRR Subpart 201-6: Emission Unit Definition
- 27 : Facility Permissible Emissions
- 2-4 6 NYCRR 202-1.2: Notification
- 2-5 6 NYCRR 202-1.3 (a): Acceptable procedures
- 30 : Submissions to the Department.
- 31 : Compliance Certification
- 32 : Submission of NOx allowance transfers.
- 33 : Requirements for installation, certification, and data accounting.
- 34 : Requirements for recertification of monitoring systems.
- 35 : Compliance Certification
- 36 : Out of control periods.
- 37 : Compliance Certification
- 38 : Compliance Certification
- 2-6 6 NYCRR 211.1: Air pollution prohibited
- 2-7 40CFR 60.7(b), NSPS Subpart A: Recordkeeping requirements.
- 2-8 40CFR 60.7(c), NSPS Subpart A: Compliance Certification
- 2-9 40CFR 60.7(d), NSPS Subpart A: Excess emissions report.
- 2-10 40CFR 60.7(f), NSPS Subpart A: Facility files for subject sources.
- 2-11 40CFR 60.8(b), NSPS Subpart A: Performance test methods.
- 2-12 40CFR 60.13, NSPS Subpart A: Monitoring requirements.
- 2-13 40CFR 60.13(h), NSPS Subpart A: Compliance Certification

#### Emission Unit Level

- 47 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 48 6 NYCRR Subpart 201-6: Process Definition By Emission Unit

#### EU=A-S0001,Proc=NG3,ES=00020

- 2-14 6 NYCRR 231-10.5: Compliance Certification

#### EU=A-S0003

- 2-15 6 NYCRR 231-10.5: Compliance Certification
- 2-16 6 NYCRR 231-10.5: Compliance Certification
- 2-17 6 NYCRR 231-10.5: Compliance Certification

#### EU=A-S0004

- 2-18 6 NYCRR 231-10.5: Compliance Certification
- 2-19 6 NYCRR 231-10.5: Compliance Certification
- 2-20 6 NYCRR 231-10.5: Compliance Certification

#### EU=A-S0006

- \*2-21 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- \*2-22 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- \*2-23 6 NYCRR Subpart 201-7: Capping Monitoring Condition



- \*2-24 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- \*2-25 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 2-26 6 NYCRR 231-3.9: Facility shakedown period
- 2-27 40CFR 60.7(a), NSPS Subpart A: Date of construction notification -  
If a COM is not used.
- 2-28 40CFR 60.8(a), NSPS Subpart A: Performance testing timeline.
- 2-29 40CFR 60.13(b), NSPS Subpart A: Compliance Certification
- 2-30 40CFR 60.4335, NSPS Subpart KKKK: Compliance Certification
- 2-31 40CFR 60.4345, NSPS Subpart KKKK: Compliance Certification
- 2-32 40CFR 60.4350, NSPS Subpart KKKK: Excess emissions identification  
using a CEM
- 2-33 40CFR 60.4365, NSPS Subpart KKKK: Compliance Certification
- 2-34 40CFR 60.4370, NSPS Subpart KKKK: Compliance Certification
- 2-35 40CFR 60.4405, NSPS Subpart KKKK: Initial performance test for  
facilities with NOx diluent CEMS
- 2-36 40CFR 60.4415, NSPS Subpart KKKK: Testing requirements for sulfur  
dioxide
- 2-37 40CFR 63.6100, Subpart YYYYY: Compliance Certification
- 2-38 40CFR 63.6110(a), Subpart YYYYY: Deadline for initial compliance  
demonstration
- 2-39 40CFR 63.6120, Subpart YYYYY: Performance test procedures
- 2-40 40CFR 63.6125(a), Subpart YYYYY: Compliance Certification

**EU=A-S0006,Proc=001,ES=GT002**

- 2-41 6 NYCRR Subpart 201-6: Compliance Certification
- 2-42 6 NYCRR Subpart 201-6: Compliance Certification
- 2-43 6 NYCRR Subpart 201-6: Compliance Certification
- 2-44 6 NYCRR Subpart 201-6: Compliance Certification
- 2-45 6 NYCRR Subpart 201-6: Compliance Certification
- 2-46 6 NYCRR Subpart 201-6: Compliance Certification
- 2-47 6 NYCRR Subpart 201-6: Compliance Certification
- 2-48 6 NYCRR Subpart 201-6: Compliance Certification
- 2-49 6 NYCRR Subpart 201-6: Compliance Certification
- 2-50 6 NYCRR Subpart 201-6: Compliance Certification
- 2-51 6 NYCRR Subpart 201-6: Compliance Certification
- 2-52 6 NYCRR Subpart 201-6: Compliance Certification
- \*2-53 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 2-54 40CFR 60.4320(a), NSPS Subpart KKKK: Compliance Certification

**EU=A-S0006,Proc=002,ES=GT002**

- 2-55 6 NYCRR Subpart 201-6: Compliance Certification
- 2-56 6 NYCRR Subpart 201-6: Compliance Certification
- 2-57 6 NYCRR Subpart 201-6: Compliance Certification
- 2-58 6 NYCRR Subpart 201-6: Compliance Certification
- 2-59 6 NYCRR Subpart 201-6: Compliance Certification
- 2-60 6 NYCRR Subpart 201-6: Compliance Certification
- \*2-61 6 NYCRR Subpart 201-7: Capping Monitoring Condition

**EU=A-S0006,Proc=003,ES=GT002**

- 2-62 6 NYCRR Subpart 201-6: Compliance Certification
- 2-63 6 NYCRR Subpart 201-6: Compliance Certification
- 2-64 6 NYCRR Subpart 201-6: Compliance Certification



- 2-65 6 NYCRR Subpart 201-6: Compliance Certification
- 2-66 6 NYCRR Subpart 201-6: Compliance Certification
- 2-67 6 NYCRR Subpart 201-6: Compliance Certification
- 2-68 6 NYCRR Subpart 201-6: Compliance Certification
- \*2-69 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 2-70 40CFR 60.4320(a), NSPS Subpart KKKK: Compliance Certification

**EU=A-S0006,Proc=004,ES=AB001**

- 2-71 6 NYCRR Subpart 201-6: Compliance Certification
- 2-72 6 NYCRR Subpart 201-6: Compliance Certification
- 2-73 40CFR 60.48c(a), NSPS Subpart Dc: Compliance Certification

**EU=A-S0006,EP=00061**

- 2-74 6 NYCRR Subpart 201-6: Compliance Certification
- 2-75 6 NYCRR Subpart 201-6: Compliance Certification
- 2-76 6 NYCRR 227-1.3 (a): Compliance Certification

**EU=A-S0006,EP=00061,Proc=003,ES=GT002**

- 2-77 6 NYCRR 227.2 (b) (1): Compliance Certification

**EU=A-S0006,EP=00071**

- 2-78 6 NYCRR 227-1.3 (a): Compliance Certification

**STATE ONLY ENFORCEABLE CONDITIONS**

**Facility Level**

- 80 ECL 19-0301: Contaminant List
- 2-79 6 NYCRR 201-1.4: Unavoidable noncompliance and violations
- 2-80 6 NYCRR 211.2: Visible Emissions Limited
- 2-81 6 NYCRR 242-1.5: CO2 Budget Trading Program - Excess emission requirements
- 2-82 6 NYCRR 242-1.5: Compliance Demonstration
- 2-83 6 NYCRR 242-1.5: Compliance Demonstration

NOTE: \* preceding the condition number indicates capping.



**FEDERALLY ENFORCEABLE CONDITIONS**  
**\*\*\*\* Facility Level \*\*\*\***

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**  
**The items listed below are not subject to the annual compliance certification requirements under Title V. Permittees may also have other obligations under regulations of general applicability.**

**Item A: 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 B: Public Access to Recordkeeping for Title V Facilities - 6 NYCRR 201-1.10 (b)**

The Department will make available to the public any permit application, compliance plan, permit, and monitoring and compliance certification report pursuant to Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to 6 NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.



**Item C: Timely Application for the Renewal of Title V Permits - 6 NYCRR 201-6.3 (a) (4)**

Owners and/or operators of facilities having an issued Title V permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.

**Item D: Certification by a Responsible Official - 6 NYCRR 201-6.3 (d) (12)**

Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official. This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

**Item E: Requirement to Comply With All Conditions - 6 NYCRR 201-6.5 (a) (2)**

The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

**Item F: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR 201-6.5 (a) (3)**

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

**Item G: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR 201-6.5 (a) (5)**

It shall not be a defense for a permittee in an enforcement action to claim that a cessation or reduction in the permitted activity would have been necessary in order to maintain compliance with the conditions of this permit.

**Item H: Property Rights - 6 NYCRR 201-6.5 (a) (6)**

This permit does not convey any property rights of any sort or any exclusive privilege.



**Item I: Severability - 6 NYCRR 201-6.5 (a) (9)**

If any provisions, parts or conditions of this permit are found to be invalid or are the subject of a challenge, the remainder of this permit shall continue to be valid.

**Item J: Permit Shield - 6 NYCRR 201-6.5 (g)**

All permittees granted a Title V facility permit shall be covered under the protection of a permit shield, except as provided under 6 NYCRR Subpart 201-6. Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and are specifically identified in the permit, or the Department, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the major stationary source, and the permit includes the determination or a concise summary thereof. Nothing herein shall preclude the Department from revising or revoking the permit pursuant to 6 NYCRR Part 621 or from exercising its summary abatement authority. Nothing in this permit shall alter or affect the following:

- i. The ability of the Department to seek to bring suit on behalf of the State of New York, or the Administrator to seek to bring suit on behalf of the United States, to immediately restrain any person causing or contributing to pollution presenting an imminent and substantial endangerment to public health, welfare or the environment to stop the emission of air pollutants causing or contributing to such pollution;
- ii. The liability of a permittee of the Title V facility for any violation of applicable requirements prior to or at the time of permit issuance;
- iii. The applicable requirements of Title IV of the Act;
- iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

**Item K: Reopening for Cause - 6 NYCRR 201-6.5 (i)**

This Title V permit shall be reopened and revised under any of the following circumstances:

- i. If additional applicable requirements under the Act become applicable where this permit's remaining term is



three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 201-6.7 and Part 621.

ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.

iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

Proceedings to reopen and issue Title V facility permits shall follow the same procedures as apply to initial permit issuance but shall affect only those parts of the permit for which cause to reopen exists.

Reopenings shall not be initiated before a notice of such intent is provided to the facility by the Department at least thirty days in advance of the date that the permit is to be reopened, except that the Department may provide a shorter time period in the case of an emergency.

**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 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.

**MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS  
SUBJECT TO ANNUAL CERTIFICATIONS AT ALL TIMES**

**The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements at all times.**

**Condition 2-1: Fees  
Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR 201-6.5 (a) (7)**

**Item 2-1.1:**

The owner and/or operator of a stationary source shall pay fees to the Department consistent with the fee schedule authorized by ECL 72-0303.

**Condition 2-2: Open Fires - Prohibitions  
Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR 215.2**

**Item 2-2.1:**

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

**Item 2-2.2**

Per Section 215.3, burning in an open fire, provided it is not contrary to other law or regulation, will be allowed as follows:

- (a) On-site burning in any town with a total population less than 20,000 of downed limbs and branches (including branches with attached leaves or needles) less than six inches in diameter and eight feet in length between May 15th and the following March 15th. For the purposes of this subdivision, the total population of a town shall include the population of any village or portion thereof located within the town. However, this subdivision shall not be construed to allow burning within any village.
- (b) Barbecue grills, maple sugar arches and similar outdoor cooking devices when actually used





for cooking or processing food.

(c) Small fires used for cooking and camp fires provided that only charcoal or untreated wood is used as fuel and the fire is not left unattended until extinguished.

(d) On-site burning of agricultural wastes as part of a valid agricultural operation on contiguous agricultural lands larger than five acres actively devoted to agricultural or horticultural use, provided such waste is actually grown or generated on those lands and such waste is capable of being fully burned within a 24-hour period.

(e) The use of liquid petroleum fueled smudge pots to prevent frost damage to crops.

(f) Ceremonial or celebratory bonfires where not otherwise prohibited by law, provided that only untreated wood or other agricultural products are used as fuel and the fire is not left unattended until extinguished.

(g) Small fires that are used to dispose of a flag or religious item, and small fires or other smoke producing process where not otherwise prohibited by law that are used in connection with a religious ceremony.

(h) Burning on an emergency basis of explosive or other dangerous or contraband materials by police or other public safety organization.

(i) Prescribed burns performed according to Part 194 of this Title.

(j) Fire training, including firefighting, fire rescue, and fire/arson investigation training, performed under applicable rules and guidelines of the New York State Department of State's Office of Fire Prevention and Control. For fire training performed on acquired structures, the structures must be emptied and stripped of any material that is toxic, hazardous or likely to emit toxic smoke (such as asbestos, asphalt shingles and vinyl siding or other vinyl products) prior to burning and must be at least 300 feet from other occupied structures. No more than one structure per lot or within a 300 foot radius (whichever is bigger) may be burned in a training exercise.

(k) Individual open fires as approved by the Director of the Division of Air Resources as may be required in response to an outbreak of a plant or animal disease upon request by the commissioner of the Department of Agriculture and Markets, or for the destruction of invasive plant and insect species.

(l) Individual open fires that are otherwise authorized under the environmental conservation law, or by rule or regulation of the Department.

**MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS  
SUBJECT TO ANNUAL CERTIFICATIONS ONLY IF APPLICABLE**

**The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements only if effectuated during the reporting period.**

**[NOTE: The corresponding annual compliance certification for those conditions not effectuated during the reporting period shall be specified as "not applicable".]**

**Condition 2-3: Required Emissions Tests  
Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 202-1.1**

**Item 2-3.1:**

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 20: Visible Emissions Limited**  
**Effective between the dates of 09/28/2007 and Permit Expiration Date**

**Applicable Federal Requirement:**

**Expired by Mod 2**

**Item 20.1:**

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.

**The following conditions are subject to annual compliance certification requirements for Title V permits only.**

**Condition 26: Emission Unit Definition**  
**Effective between the dates of 09/28/2007 and Permit Expiration Date**

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

**Item 26.1(From Mod 2):**

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

Emission Unit: A-S0001

Emission Unit Description:

Emission Unit A-S0001 consists of one very large (1,795 MM Btu/hr) Babcock & Wilcox boiler, Boiler 20 (Emission Source 00020), which combusts only natural gas (Process NG3). A very large boiler is defined as a boiler with a maximum heat input capacity greater than 250 million Btu per hour. Boiler 20 was constructed and began operating on 1/1/1953 in the Boiler House, was removed from operation on 12/31/1993, and was reactivated on 9/1/2000. Boiler 20 is a single furnace with only one stack. Emissions from Boiler 20 are exhausted through one stack, which is identified as Emission Point 00021.

Boiler 20's emission cap is as follows: 24.5 tpy of Particulates, 14.5 tpy of PM-10, 39.5 tpy of Sulfur Dioxide, 98 tpy of Carbon Monoxide, 110 tpy of NOx, 24 tpy of VOC, 0.0003 tpy of Beryllium, and 0.05 tpy of Mercury.

Building(s): BOILERHS



**Item 26.2(From Mod 2):**

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

Emission Unit: A-S0003

Emission Unit Description:

Emission Unit A-S0003 consists of one very large (4,074 MM Btu/hr) Combustion Engineering , Boiler 40 (Emission Source 00040), which has the capability to burn residual oil (Process RO2) and natural gas (Process NG2) and can fire these fuels in various combinations. A very large boiler is defined as a boiler with a maximum heat input capacity greater than 250 million Btu per hour. Boiler 40 was constructed and began operating on 9/1/1958 in the Boiler House. Boiler 40 is twin furnace boiler with two stacks/emission points. Emissions from Boiler 40 are exhausted through two different stacks, which are identified as Emission Points 00041 & 00042.

Building(s): BOILERHS

**Item 26.3(From Mod 2):**

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

Emission Unit: A-S0004

Emission Unit Description:

Emission Unit A-S0004 consists of one very large (4,094 MM Btu/hr) Combustion Engineering , Boiler 50 (Emission Source 00050), which has the capability to burn residual oil (Process RO3) and natural gas (Process NG4) and can fire these fuels in various combinations. A very large boiler is defined as a boiler with a maximum heat input capacity greater than 250 million Btu per hour. Boiler 50 was constructed and began operating on 5/1/1962 in the Boiler House. Boiler 50 is twin furnace boiler with two stacks/emission points. Emissions from Boiler 50 are exhausted through two different stacks, which are identified as Emission Points 00051 & 00052.

Building(s): BOILERHS

**Item 26.4(From Mod 2):**

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

Emission Unit: A-S0006

Emission Unit Description:

Emission Unit A-S0006 consists on one SCCS-8000H Siemens combustion turbine (Emission Source GT002) & duct burner (Emission Source DB001), and a Auxilary boiler(with a steam capacity of approximately 30,000 pounds per hour provide start up steam to the combined cycle unit). The Siemens H combustion turbine in combined cycle operation is nominally rated to produce approximately 410 MW of electric power under



typical operating conditions.

The combustion turbine and duct burner will utilize dry low NOx combustors and SCR to limit NOx emissions when firing natural gas and will utilize water injection and SCR to limit NOx emissions to when firing ULSD, and a CO oxidation catalyst to minimize CO and VOC emissions.

The emissions from turbine duct burner unit are exhausted through a single exhaust stack (Emission Point 00061). The auxiliary boiler has a separate stack (Emission point 000071).

Building(s): AUXBOIL  
GTE  
HRSG

**Item 26.5(From Mod 0):**

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

Emission Unit: A-S0002

Emission Unit Description:

Emission Unit A-S0002 consists of one very large (3,984 MM Btu/hr) Babcock & Wilcox boiler, Boiler 30 (Emission Source 00030), which has the capability to burn residual oil (Process RO1) and natural gas (Process NG1) and can fire these fuels in various combinations. A very large boiler is defined as a boiler with a maximum heat input capacity greater than 250 million Btu per hour. Boiler 30 was constructed and began operating on 9/1/1958 in the Boiler House. Boiler 30 is twin furnace boiler with two stacks/emission points. Emissions from Boiler 30 are exhausted through two different stacks, which are identified as Emission Points 00031 & 00032. Boiler 30 uses Flue Gas Recirculation (FGR) to control NOx emissions.

The NOx emissions from Boiler 30 are limited to 1,764 tons/yr and the CO emissions from Boiler 30 are limited to 1,435 tons/yr.

Building(s): BOILERHS

**Item 26.6(From Mod 0):**

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

Emission Unit: A-S0005

Emission Unit Description:



Emission Unit A-S0005 consists of one 243 MM Btu/hr General Electric Model 5000L simple cycle combustion turbine, GT001 (Emission Source GT001), utilized to generate electricity. The combustion turbine burns only natural gas (Process GTN) and has a diesel starter engine. Combustion Turbine GT001 was constructed and began operating on 7/1/1967 in the Gas Turbine Facility (GTFAC). Emissions from GT001 are exhausted through one stack, which is identified as Emission Point GT001.

Building(s): GTFAC

**Condition 27: Facility Permissible Emissions**  
**Effective between the dates of 09/28/2007 and Permit Expiration Date**

**Applicable Federal Requirement:**

**Expired by Mod 2**  
**Applicaton Specific Data**

**Condition 2-4: Notification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 202-1.2**

**Item 2-4.1:**

A person who is required by the commissioner to submit a stack test report shall notify the commissioner, in writing, not less than 30 days prior to the test, of the time and date of the test. Such notification shall also include the acceptable procedures to be used to stack test including sampling and analytical procedures. Such person shall allow the commissioner, or his representative, free access to observe stack testing being conducted by such person.

**Condition 2-5: Acceptable procedures**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 202-1.3 (a)**

**Item 2-5.1:**

Emission testing, sampling and analytical determinations to ascertain compliance with this Subchapter shall be conducted in accordance with test methods acceptable to the commissioner. The Reference Methods contained in part 60, appendix A and part 61, appendix B of title 40 of the Code of Federal Regulations and all future technical revisions, additions or corrections made thereto shall be considered as acceptable test methods for those sources and contaminants for which they are expressly applicable, except where the commissioner has issued a specific method to be used instead of a Reference Method contained in these Federal regulations or where the commissioner determines that one or more alternate methods are also acceptable. The person who owns or operates an air contamination source shall submit the emission test report in triplicate, to the commissioner within 60 days after the completion of tests. In the event such source owner/operator can demonstrate to the commissioner such time is not sufficient, he may request in writing and be granted an extension. Where an opacity emission standard is applicable to the source tested, the emission test report shall include the opacity observation.



**Condition 30: Submissions to the Department.**  
**Effective between the dates of 09/28/2007 and Permit Expiration Date**

**Applicable Federal Requirement:**

**Expired by Mod 2**

**Item 30.1: Each submission under the NOx Budget Trading Program shall be submitted, signed and certified by the NOx authorized account representative for each NOx Budget source on behalf of which the submission is made. Each submission shall include a certification statement (as stated in paragraph 204-2.4(a)(4)) by the NOx authorized account representative.**

**Condition 31: Compliance Certification**  
**Effective between the dates of 09/28/2007 and Permit Expiration Date**

**Applicable Federal Requirement:**

**Expired by Mod 2**

**Item 31.1:**  
The Compliance Certification activity will be performed for the Facility.

**Item 31.2:**  
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For each control period in which one or more NOx Budget units at a source are subject to the NOx Budget emissions limitation, the NOx authorized account representative of the source shall submit to the Department and the Administrator by November 30 of that year, a compliance certification report for each source covering all such units.

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 32: Submission of NOx allowance transfers.**  
**Effective between the dates of 09/28/2007 and Permit Expiration Date**

**Applicable Federal Requirement:**

**Expired by Mod 2**

**Item 32.1: The NOx authorized account representatives seeking recordation of a NOx allowance transfer shall submit the transfer to the Administrator. To be considered correctly submitted, the NOx allowance transfer shall include the following elements in a format specified by the Administrator:**

- (a) The numbers identifying both the transferor and transferee accounts;
- (b) A specification by serial number of each NOx allowance to be transferred; and
- (c) The printed name and signature of the NOx authorized account representative of the transferor account and the date signed.

**Condition 33: Requirements for installation, certification, and data**



accounting.

Effective between the dates of 09/28/2007 and Permit Expiration Date

Applicable Federal Requirement:

Expired by Mod 2

**Item 33.1: The owner or operator of each NOx Budget unit must meet the following** requirements. These provisions also apply to a unit for which an application for a NOx Budget opt-in permit is submitted and not denied or withdrawn, as provided in Subpart 204-9:

- (1) Install all monitoring systems required under this Subpart for monitoring NOx mass. This includes all systems required to monitor NOx emission rate, NOx concentration, heat input, and flow, in accordance with 40 CFR 75.71 and 75.72.
- (2) Install all monitoring systems for monitoring heat input, if required under Section 204-8.7 for developing NOx allowance allocations.
- (3) Successfully complete all certification tests required under Section 204-8.2 and meet all other provisions of this Subpart and 40 CFR Part 75 applicable to the monitoring systems under paragraphs (a)(1) and (2) of this section.
- (4) Record and report data from the monitoring systems under paragraphs (a)(1) and (2) of this section.

**Condition 34: Requirements for recertification of monitoring systems.**  
Effective between the dates of 09/28/2007 and Permit Expiration Date

Applicable Federal Requirement:

Expired by Mod 2

**Item 34.1: Whenever the owner or operator makes a replacement, modification, or change in a certified monitoring system that the Administrator or the Department determines significantly affects the ability of the system to accurately measure or record NOx mass emissions or heat input or to meet the requirements of 40 CFR 75.21 or Appendix B to 40 CFR Part 75, the owner or operator shall recertify the monitoring system according to 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 the Administrator or the Department determines to significantly change the flow or concentration profile, the owner or operator shall recertify the continuous emissions monitoring system according to 40 CFR 75.20(b). Examples of changes which require recertification include: replacement of the analyzer, change in location or orientation of the sampling probe or site, or changing of flow rate monitor polynomial coefficients.

**Condition 35: Compliance Certification**  
Effective between the dates of 09/28/2007 and Permit Expiration Date

Applicable Federal Requirement:

Expired by Mod 2

**Item 35.1:**  
The Compliance Certification activity will be performed for the Facility.

**Item 35.2:**  
Compliance Certification shall include the following monitoring:

**New York State Department of Environmental Conservation**

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185



Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a NOx Budget unit under paragraphs (b)(2) or (b)(3) of this section must determine, record and report NOx mass, heat input (if required for purposes of allocations) and any other values required to determine NOx Mass (e.g. NOx emission rate and heat input or NOx concentration and stack flow) using the provisions of 40 CFR 75.70(g), from the date and hour that the unit starts operating until all required certification tests are successfully completed.

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 36: Out of control periods.**  
**Effective between the dates of 09/28/2007 and Permit Expiration Date**

**Applicable Federal Requirement:**

**Expired by Mod 2**

**Item 36.1: Whenever any monitoring system fails to meet the quality assurance requirements of Appendix B of 40 CFR Part 75, data shall be substituted using the applicable procedures in Subpart D, Appendix D, or Appendix E of 40 CFR Part 75.**

**Condition 37: Compliance Certification**  
**Effective between the dates of 09/28/2007 and Permit Expiration Date**

**Applicable Federal Requirement:**

**Expired by Mod 2**

**Item 37.1:**  
The Compliance Certification activity will be performed for the Facility.

**Item 37.2:**  
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The Authorized Account Representative for a NOx Budget unit shall submit written notice to the Department and the USEPA Administrator in accordance with the requirements of this subpart as follows:

All monitoring plans or monitoring plan modifications; compliance certifications, recertifications and quarterly QA/QC reports; and, petitions for alternative monitoring, shall be submitted to the USEPA Administrator (or his/her representatives) as well as two copies to the Department (one copy to the Regional Air Pollution Control Engineer (RAPCES) in the regional office and one one copy to the Bureau of Compliance Monitoring and Enforcement (BCME) in the DEC central office. All Authorized Account



**New York State Department of Environmental Conservation**

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185



Representative changes shall be sent to the NYSDEC central office.

All quarterly emission data shall be electronically filed with the USEPA Clean Air Markets Division with a copy (disc or hard copy) to the NYSDEC offices.

The address for the USEPA Administrator is as follows:

Mr. Matthew G. Boze  
USEPA Clean Air Markets Division  
401 M Street SW (6204J)  
Washington D.C., 20460

Ms. Ann Zownir  
CEM Coordinator  
USEPA-Region 2  
2890 Woodbridge Avenue  
Edison, N.J. 08837

The address for the BCME is as follows:

NYSDEC  
Bureau of Compliance Monitoring and Enforcement  
625 Broadway, 2nd Floor  
Albany N.Y. 12233-3258

ACR changes should be sent to the attention of:

NYSDEC  
Stationary Source Planning Section  
Bureau of Air Quality Planning  
625 Broadway, 2nd Floor  
Albany NY 12233-3251

The address for the RAPCE is as follows:

Mr. Sam Lieblich  
NYSDEC - Air resources  
Hunters Point Plaza  
47-20 21st Street  
Long Island City, NY 11101-5407

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 38: Compliance Certification**  
**Effective between the dates of 09/28/2007 and Permit Expiration Date**



**Applicable Federal Requirement:**

**Expired by Mod 2**

**Item 38.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 38.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a unit that elects to monitor and report NOx Mass emissions using a NOx concentration system and a flow system shall also monitor and report heat input at the unit level using the procedures set forth in 40 CFR Part 75.

Monitoring Frequency: HOURLY

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2007.

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

**Condition 2-6: Air pollution prohibited  
Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 211.1**

**Item 2-6.1:**

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 2-7: Recordkeeping requirements.  
Effective for entire length of Permit**

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

**Item 2-7.1:**

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 2-8: Compliance Certification  
Effective for entire length of Permit**

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



**Item 2-8.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 2-8.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Affected owners or operators shall submit an excess emissions report and/or a summary report form (as defined in 40 CFR 60.7(d)) semi-annually (or more frequently as required by the applicable Subpart or the Administrator), to the Administrator. These reports shall be post marked no later than 30 days after each six (6) month period (or as appropriate), and shall contain the following information:

- 1) the magnitude of excess emissions computed, any conversion factors used, the date and time of each occurrence, and the process operating time during the reporting period;
- 2) specific identification of each period of excess emissions that occur during startup, shutdown, or malfunction, where the nature, cause, and corrective action are provided for a malfunction;
- 3) the date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments; and
- 4) when no excess emissions have occurred or when the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be provided in the report.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-9: Excess emissions report.  
Effective for entire length of Permit**

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

**Item 2-9.1:**

A summary report form, for each pollutant monitored, shall be sent to the Administrator in the form prescribed in Figure 1 of 40 CFR Part 60.7(d).



**Condition 2-10: Facility files for subject sources.  
Effective for entire length of Permit**

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

**Item 2-10.1:**

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 2-11: Performance test methods.  
Effective for entire length of Permit**

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

**Item 2-11.1:**

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.

**Condition 2-12: Monitoring requirements.  
Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 60.13, NSPS Subpart A**

**Item 2-12.1:**

All continuous monitoring systems and devices shall be installed, calibrated, maintained, and operated in accordance with the requirements of section 60.13.

**Condition 2-13: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 60.13(h), NSPS Subpart A**

**Item 2-13.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 2-13.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Owners or operators of all continuous monitoring systems for measurement of opacity shall reduce all data to 6-minute averages and for continuous monitoring systems other than opacity to 1-hour averages for time periods as defined in §60.2. Six-minute opacity averages shall be calculated from 36 or more data points equally spaced over



each 6-minute period. For continuous monitoring systems other than opacity, 1-hour averages shall be computed from four or more data points equally spaced over each 1-hour period. Data recorded during periods of continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments shall not be included in the data averages computed under this paragraph. An arithmetic or integrated average of all data may be used. The data may be recorded in reduced or nonreduced form (e.g., ppm pollutant and percent O<sub>2</sub> or ng/J of pollutant). All excess emissions shall be converted into units of the standard using the applicable conversion procedures specified in subparts. After conversion into units of the standard, the data may be rounded to the same number of significant digits as used in the applicable subparts to specify the emission limit.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

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

**Condition 47: Emission Point Definition By Emission Unit**  
**Effective between the dates of 09/28/2007 and Permit Expiration Date**

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

**Item 47.1(From Mod 2):**

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

Emission Unit: A-S0006

Emission Point: 00061

Height (ft.): 205

Diameter (in.): 288

NYTMN (km.): 4515.7

NYTME (km.): 592.5

Emission Point: 00071

Height (ft.): 130

Diameter (in.): 30

NYTMN (km.): 4515.7

NYTME (km.): 592.5

**Item 47.2(From Mod 0):**

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

Emission Unit: A-S0001

Emission Point: 00021

Height (ft.): 299

Diameter (in.): 164

New York State Department of Environmental Conservation

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185



NYTMN (km.): 4515.7      NYTME (km.): 592.5      Building: BOILERHS

**Item 47.3(From Mod 0):**

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

Emission Unit: A-S0002

Emission Point: 00031

Height (ft.): 299

Diameter (in.): 168

NYTMN (km.): 4515.094      NYTME (km.): 591.559      Building: BOILERHS

Emission Point: 00032

Height (ft.): 299

Diameter (in.): 168

NYTMN (km.): 4515.099      NYTME (km.): 591.566      Building: BOILERHS

**Item 47.4(From Mod 0):**

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

Emission Unit: A-S0003

Emission Point: 00041

Height (ft.): 299

Diameter (in.): 168

NYTMN (km.): 4515.7      NYTME (km.): 592.5      Building: BOILERHS

Emission Point: 00042

Height (ft.): 299

Diameter (in.): 168

NYTMN (km.): 4515.7      NYTME (km.): 592.5      Building: BOILERHS

**Item 47.5(From Mod 0):**

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

Emission Unit: A-S0004

Emission Point: 00051

Height (ft.): 299

Diameter (in.): 168

NYTMN (km.): 4515.134      NYTME (km.): 591.612      Building: BOILERHS

Emission Point: 00052

Height (ft.): 299

Diameter (in.): 168

NYTMN (km.): 4515.139      NYTME (km.): 591.619      Building: BOILERHS

**Item 47.6(From Mod 0):**

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

Emission Unit: A-S0005

Emission Point: GT001

Height (ft.): 28

Length (in.): 92

Width (in.): 120

NYTMN (km.): 4515.7      NYTME (km.): 592.5      Building: GTFAC

**Condition 48: Process Definition By Emission Unit**

**Effective between the dates of 09/28/2007 and Permit Expiration Date**



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

**Item 48.1(From Mod 2):**

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

Emission Unit: A-S0001

Process: NG3

Source Classification Code: 1-01-006-01

Process Description:

Process NG3 consists of one face fired very large (1,795 MM Btu/hr) Babcock & Wilcox boiler, Boiler 20 (Emission Source 00020) in Emission Unit A-S0001 burning only natural gas. A very large boiler is defined as a boiler with a maximum heat input capacity greater than 250 million Btu per hour. Boiler 20 was constructed and began operating on 1/1/1953 in the Boiler House, was removed from operation on 12/31/1993, and was reactivated on 9/1/2000. Boiler 20 is a single furnace with only one stack. Emissions from Boiler 20 are exhausted through one stack, which is identified as Emission Point 00021.

Boiler 20 has the following emission limits:

NO<sub>x</sub> - 110 tpy  
VOC - 24 tpy  
CO - 98 tpy  
PM-10 - 14.5 tpy  
Particulates - 24.5 tpy  
SO<sub>2</sub> - 39.5 tpy  
Beryllium - 0.0003 tpy  
Mercury - 0.05 tpy

Emission Source/Control: 00020 - Combustion

Design Capacity: 1,795 million Btu per hour

**Item 48.2(From Mod 2):**

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

Emission Unit: A-S0003

Process: NG2

Source Classification Code: 1-01-006-04

Process Description:

Process NG2 is the combustion of natural gas in Boiler 40 (Emission Source 00040) in Emission Unit A-S0003. This very large boiler is one tangentially fired Combustion Engineering boiler and is rated at 4,074 million BTU/hr and covers the combustion of natural gas in this boiler. A very large boiler is defined as a boiler with a maximum heat input capacity greater than 250 million Btu per hour.

Boiler 40 (Emission Source 00040) has the capability to

New York State Department of Environmental Conservation

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185



burn residual oil (Process RO2) and natural gas (Process NG2) and can fire these fuels in various combinations. Boiler 40 (Emission Source 00040) was constructed and began operating on 9/1/1958 in the Boiler House. Emissions from Boiler 40 (Emission Source 00040) are exhausted through two different stacks, which are identified as Emission Points 00041 & 00042.

Emission Source/Control: 00040 - Combustion  
Design Capacity: 4,074 million Btu per hour

**Item 48.3(From Mod 2):**

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

Emission Unit: A-S0003  
Process: RO2 Source Classification Code: 1-01-004-04  
Process Description:

Process RO2 is the combustion of residual oil in Boiler 40 (Emission Source 00040 in Emission Unit A-S0003. This very large boiler is one tangentially fired Combustion Engineering boiler and is rated at 4,074 million BTU/hr and covers the combustion of natural gas in this boiler. A very large boiler is defined as a boiler with a maximum heat input capacity greater than 250 million Btu per hour.

Boiler 40 (Emission Source 00040) has the capability to burn residual oil (Process RO2) and natural gas (Process NG2) and can fire these fuels in various combinations. Boiler 40 (Emission Source 00040) was constructed and began operating on 9/1/1958 in the Boiler House. Emissions from Boiler 40 (Emission Source 00040) are exhausted through two different stacks, which are identified as Emission Points 00041 & 00042.

Emission Source/Control: 00040 - Combustion  
Design Capacity: 4,074 million Btu per hour

**Item 48.4(From Mod 2):**

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

Emission Unit: A-S0004  
Process: NG4 Source Classification Code: 1-01-006-04  
Process Description:

Process NG4 is the combustion of natural gas in Boiler 50 (Emission Source 00050 in Emission Unit A-S0004. This very large boiler is one tangentially fired Combustion Engineering boiler and is rated at 4,094 million BTU/hr and covers the combustion of natural gas in this boiler. A very large boiler is defined as a boiler with a maximum heat input capacity greater than 250 million Btu per hour.





Boiler 50 (Emission Source 00050) has the capability to burn residual oil (Process RO3) and natural gas (Process NG4) and can fire these fuels in various combinations. Boiler 50 (Emission Source 00050) was constructed and began operating on 5/1/1962 in the Boiler House. Emissions from Boiler 50 (Emission Source 00050) are exhausted through two different stacks, which are identified as Emission Points 00051 & 00052.

Emission Source/Control: 00050 - Combustion  
Design Capacity: 4,094 million Btu per hour

**Item 48.5(From Mod 2):**

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

Emission Unit: A-S0004  
Process: RO3 Source Classification Code: 1-01-004-04  
Process Description:

Process RO3 is the combustion of residual oil in Boiler 50 (Emission Source 00050 in Emission Unit A-S0004. This very large boiler is one tangentially fired Combustion Engineering boiler and is rated at 4,094 million BTU/hr and covers the combustion of natural gas in this boiler. A very large boiler is defined as a boiler with a maximum heat input capacity greater than 250 million Btu per hour.

Boiler 50 (Emission Source 00050) has the capability to burn residual oil (Process RO3) and natural gas (Process NG4) and can fire these fuels in various combinations. Boiler 50 (Emission Source 00050) was constructed and began operating on 5/1/1962 in the Boiler House. Emissions from Boiler 50 (Emission Source 00050) are exhausted through two different stacks, which are identified as Emission Points 00051 & 00052.

Emission Source/Control: 00050 - Combustion  
Design Capacity: 4,094 million Btu per hour

**Item 48.6(From Mod 2):**

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

Emission Unit: A-S0006  
Process: 001 Source Classification Code: 2-01-002-01  
Process Description:

Combustion turbine firing natural gas - no duct burner  
(expected annual operation: 3695 hrs)

Emission Source/Control: GT002 - Combustion  
Design Capacity: 2,590 million Btu per hour



**Item 48.7(From Mod 2):**

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

Emission Unit: A-S0006  
Process: 002 Source Classification Code: 2-01-002-01  
Process Description:  
Combustion turbine firing natural gas with duct burner  
firing on natural gas (expected annual operation: 3914  
hrs).

Building GTE/HRSG

Emission Source/Control: DB001 - Combustion  
Design Capacity: 84.7 million Btu per hour

Emission Source/Control: GT002 - Combustion  
Design Capacity: 2,590 million Btu per hour

**Item 48.8(From Mod 2):**

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

Emission Unit: A-S0006  
Process: 003 Source Classification Code: 2-01-001-01  
Process Description:  
Combustion turbine firing ULSD - no duct burner (expected  
annual operation:712hrs)

Emission Source/Control: GT002 - Combustion  
Design Capacity: 2,590 million Btu per hour

**Item 48.9(From Mod 2):**

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

Emission Unit: A-S0006  
Process: 004 Source Classification Code: 1-02-006-02  
Process Description:  
Auxiliary boiler firing natural gas (expected annual  
operation: 1,500 hrs)

Emission Source/Control: AB001 - Combustion  
Design Capacity: 30 million Btu per hour

**Item 48.10(From Mod 0):**

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

Emission Unit: A-S0002  
Process: NG1 Source Classification Code: 1-01-006-01  
Process Description:  
Process NG1 is the combustion of natural gas in Boiler 30  
(Emission Source 00030 in Emission Unit A-S0002. This  
very large boiler is one face fired Babcock & Wilcox  
boiler and is rated at 3,984 million BTU/hr and covers the

New York State Department of Environmental Conservation

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185



combustion of natural gas in this boiler. A very large boiler is defined as a boiler with a maximum heat input capacity greater than 250 million Btu per hour.

Boiler 30 (Emission Source 00030) has the capability to burn residual oil (Process RO1) and natural gas (Process NG1) and can fire these fuels in various combinations. Boiler 30 (Emission Source 00030) was constructed and began operating on 9/1/1958 in the Boiler House. Emissions from Boiler 30 (Emission Source 00030) are exhausted through two different stacks, which are identified as Emission Points 00031 & 00032. Boiler 30 uses Flue Gas Recirculation (FGR) to control NOx emissions. The NOx emissions from Boiler 30 are limited to 1,764 tons/yr and the CO emissions from Boiler 30 are limited to 1,435 tons/yr.

Emission Source/Control: 00030 - Combustion  
Design Capacity: 3,984 million Btu per hour

**Item 48.11(From Mod 0):**

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

Emission Unit: A-S0002

Process: RO1

Source Classification Code: 1-01-004-01

Process Description:

Process RO1 is the combustion of residual oil in Boiler 30 (Emission Source 00030 in Emission Unit A-S0002. This very large boiler is one face fired Babcock & Wilcox boiler and is rated at 3,984 million BTU/hr and covers the combustion of natural gas in this boiler. A very large boiler is defined as a boiler with a maximum heat input capacity greater than 250 million Btu per hour.

Boiler 30 (Emission Source 00030) has the capability to burn residual oil (Process RO1) and natural gas (Process NG1) and can fire these fuels in various combinations. Boiler 30 (Emission Source 00030) was constructed and began operating on 9/1/1958 in the Boiler House. Emissions from Boiler 30 (Emission Source 00030) are exhausted through two different stacks, which are identified as Emission Points 00031 & 00032. Boiler 30 uses Flue Gas Recirculation (FGR) to control NOx emissions. The NOx emissions from Boiler 30 are limited to 1,764 tons/yr and the CO emissions from Boiler 30 are limited to 1,435 tons/yr.

Emission Source/Control: 00030 - Combustion  
Design Capacity: 3,984 million Btu per hour



**Item 48.12(From Mod 0):**

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

Emission Unit: A-S0005  
Process: GTN Source Classification Code: 2-01-002-01  
Process Description:

Process GTN is the combustion of natural gas in the General Electric Model 5000L simple cycle combustion turbine GT001 (Emission Source GT001) in Emission Unit A-S0005. This combustion turbine is rated at 243 MM BTU/hr and is utilized to generate electricity.

The combustion turbine burns only natural gas (Process GTN) and has a diesel starter engine. Combustion Turbine GT001 was constructed and began operating on 7/1/1967 in the Gas Turbine Facility (GTFAC). Emissions from GT001 are exhausted through one stack, which is identified as Emission Point GT001.

Emission Source/Control: GT001 - Combustion  
Design Capacity: 243 million Btu per hour

**Condition 2-14: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 231-10.5**

**Item 2-14.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0001  
Process: NG3 Emission Source: 00020

**Item 2-14.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This condition will become effective upon commencement of operation of Luster Creek Energy Project.

The commencement of operation of Luyster Creek Energy Project shall occur only after the Shutdown of Emission Source 00020. Within 30 days of this occurrence, facility shall submit Department a letter certifying shut down and details.

With the shut down of this unit AGS establishes creation of following ERCs;

11.86 tpy of NOX 11.86 tpy  
1.1 tpy of PM



1.1 tpy of PM10  
1.1 tpy of PM 2.5  
0.8 tpy of VOC

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING  
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 2-15: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 231-10.5**

**Item 2-15.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0003

Regulated Contaminant(s):

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

**Item 2-15.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This condition will become effective upon commencement of operation of Luyster Creek Energy Project.

NOx emission from AGS Unit 4(Emission source 00040 is limited to 636.32 tons per year. 24.57 tpy NOx ERCs are created for the new Luyster Creek Energy Project by operation curtailment of this boiler (Emission Source 00050).

Facility should calculate boiler NOx emissions using CEM emission data to demonstrate the compliance with this cap.

Manufacturer Name/Model Number: Teco Model 42I

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 636.32 tons per year

Reference Test Method: EPA approved

Monitoring Frequency: CONTINUOUS

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-16: Compliance Certification**  
**Effective for entire length of Permit**



**Applicable Federal Requirement:6 NYCRR 231-10.5**

**Item 2-16.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0003

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

**Item 2-16.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

This condition will become effective upon commencement of operation of Luyster Creek Energy Project.

VOC emission from AGS Unit 4(Emission source 00050) is limited to 28.21 tons per year. 0.51 tpy VOC ERCs are created for the new Luyster Creek Energy Project by operation curtailment of this boiler (Emission Source 00050).

Facility should calculate boiler VOC emissions using AP-42 or Department approved emission factors to demonstrate the compliance with this cap.

Parameter Monitored: VOC  
Upper Permit Limit: 28.21 tons per year  
Reference Test Method: EPA approved  
Monitoring Frequency: MONTHLY  
Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 6 calendar month(s).

**Condition 2-17: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 231-10.5**

**Item 2-17.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0003

Regulated Contaminant(s):  
CAS No: 0NY075-02-5 PM 2.5

**Item 2-17.2:**

**New York State Department of Environmental Conservation**

**Permit ID: 2-6301-00185/00009**

**Facility DEC ID: 2630100185**



Compliance Certification shall include the following monitoring:

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

Monitoring Description:

This condition will become effective upon commencement of operation of Luyster Creek Energy Project.

PM 2.5 emission from AGS Unit 4(Emission source 00050) is limited to 65.78 tons per year. 15.28 tpy PM 2.5 ERCs are created for the new Luyster Creek Energy Project by operation curtailment of this boiler (Emission Source 00050).

Facility should calculate boiler PM 2.5 emissions using AP42 or Department approved emission factors to demonstrate the compliance with this cap.

Parameter Monitored: PM 2.5

Upper Permit Limit: 65.78 tons per year

Reference Test Method: EPA approved

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-18: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 231-10.5**

**Item 2-18.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0004

Regulated Contaminant(s):

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

**Item 2-18.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This condition will become effective upon commencement of operation of Luyster Creek Energy Project.

NOx emission from AGS Unit 5 (Emission source 00050) is limited to 744.46 tons per year. 44.67 tpy NOx ERCs are created for the new Luyster Creek Energy Project by operation curtailment of this turbine (Emission source

**New York State Department of Environmental Conservation**

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185



00050).

Facility should calculate turbine NOx emissions using CEM emission data to demonstrate the compliance with this cap.

Manufacturer Name/Model Number: Teco Model 42I  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 744.46 tons per year  
Reference Test Method: EPA approved  
Monitoring Frequency: CONTINUOUS  
Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 6 calendar month(s).

**Condition 2-19: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 231-10.5**

**Item 2-19.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0004

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

**Item 2-19.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

This condition will become effective upon commencement of operation of Luyster Creek Energy Project.

VOC emission from AGS Unit 5 (Emission source 00050) is limited to 32.95 tons per year. 0.92 tpy VOC ERCs are created for the new Luyster Creek Energy Project by operation curtailment of this turbine (Emission source 00050).

Facility should calculate turbine VOC emissions using AP-42 or Department approved emission factors to demonstrate the compliance with this cap.

Parameter Monitored: VOC  
Upper Permit Limit: 32.95 tons per year  
Reference Test Method: EPA approved  
Monitoring Frequency: MONTHLY



**New York State Department of Environmental Conservation**

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185



Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 6 calendar month(s).

**Condition 2-20: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 231-10.5**

**Item 2-20.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0004

Regulated Contaminant(s):

CAS No: 0NY075-02-5 PM 2.5

**Item 2-20.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

This condition will become effective upon commencement of operation of Luyster Creek Energy Project.

PM 2.5 emissions from AGS Unit 5 (Emission source 00050) is limited to 58.26 tons per year. 27.78 tpy of PM2.5 ERCs are created for the new Luyster Creek Energy Project by operation curtailment of this turbine(Emission source 00050)

Facility should calculate turbine PM 2.5 emissions using AP-42 or Department approved emission factors to demonstrate the compliance with this cap.

Parameter Monitored: PM 2.5

Upper Permit Limit: 58.26 tons per year

Reference Test Method: EPA approved

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-21: Capping Monitoring Condition**  
**Effective for entire length of Permit**

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

**Item 2-21.1:**

**New York State Department of Environmental Conservation**

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185



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 231-6.4

**Item 2-21.2:**

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

**Item 2-21.3:**

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 2-21.4:**

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 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 2-21.5:**

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 2-21.6:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

Regulated Contaminant(s):

CAS No: 0NY075-00-5      PM-10

**Item 2-21.7:**

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

This condition will become effective upon commencement of operation of Luster Creek Energy Project(LCEP).

PM-10 emissions from this Emission unit A-S0006 are limited to 54.07 tons per year.



The Facility must calculate the annual PM-10 emissions from LCEP sources: SCCS-8000H Siemens combustion turbine (Emission Source GT002) & duct burner (Emission Source DB001), and the Auxiliary boiler using AP 42 emission factors or most recent stack test data. The total start up shut down emissions should also be included in this calculation.

All records must be maintained at the facility for a minimum of five years.

Parameter Monitored: PM-10

Upper Permit Limit: 54.07 tons per year

Reference Test Method: EPA approved

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-22: Capping Monitoring Condition  
Effective for entire length of Permit**

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

**Item 2-22.1:**

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 Subpart 231-6

**Item 2-22.2:**

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

**Item 2-22.3:**

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 2-22.4:**

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 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.

**New York State Department of Environmental Conservation**

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185



**Item 2-22.5:**

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 2-22.6:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

Regulated Contaminant(s):

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

**Item 2-22.7:**

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This condition will become effective upon commencement of operation of Luster Creek Energy Project(LCEP).

NOx emissions from this Emission unit A-S0006 are limited to 105.60 tons per year.

The Facility must calculate the annual NOx emissions from LCEP sources: SCCS-8000H Siemens combustion turbine (Emission Source GT002) & duct burner (Emission Source DB001), and the Auxiliary boiler. A CEM should measure and record NOx emissions from the turbine with and without duct burner, and NOx emissions from the auxiliary boiler should be calculated by using AP42 emission factors or most recent stack test data. The total start up shut down emissions should also be included in this calculation.

All records must be maintained at the facility for a minimum of five years.

Manufacturer Name/Model Number: TECO Model 421 or equivalent

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 105.60 tons per year

Reference Test Method: EPA approved

Monitoring Frequency: CONTINUOUS

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-23: Capping Monitoring Condition  
Effective for entire length of Permit**



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

**Item 2-23.1:**

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 231-6.4

**Item 2-23.2:**

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

**Item 2-23.3:**

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 2-23.4:**

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 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 2-23.5:**

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 2-23.6:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

**Item 2-23.7:**

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

This condition will become effective upon commencement of operation of Luster Creek Energy Project(LCEP).



VOC emissions from this Emission unit A-S0006 are limited to 26.23 tons per year.

The Facility must calculate the annual VOC emissions from LCEP sources: SCCS-8000H Siemens combustion turbine (Emission Source GT002) & duct burner (Emission Source DB001), and the Auxiliary boiler using most recent stack test data. The total start up shut down emissions should also be included in this calculation.

All records must be maintained at the facility for a minimum of five years.

Parameter Monitored: VOC

Upper Permit Limit: 26.23 tons per year

Reference Test Method: EPA approved

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-24: Capping Monitoring Condition  
Effective for entire length of Permit**

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

**Item 2-24.1:**

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 Subpart 231-6

**Item 2-24.2:**

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

**Item 2-24.3:**

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 2-24.4:**

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 certification shall include a brief summary of the emissions subject to the cap for that time

**New York State Department of Environmental Conservation**

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185



period and a comparison to the threshold levels that would require compliance with an applicable requirement.

**Item 2-24.5:**

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 2-24.6:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

Regulated Contaminant(s):

CAS No: 0NY075-02-5 PM 2.5

**Item 2-24.7:**

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

This condition will become effective upon commencement of operation of Luster Creek Energy Project(LCEP).

PM2.5 emissions from this Emission unit A-S0006 are limited to 54.07 tons per year.

The Facility must calculate the annual PM2.5 emissions from LCEP sources: SCCS-8000H Siemens combustion turbine (Emission Source GT002) & duct burner (Emission Source DB001), and the Auxiliary boiler using most recent stack test data. The total start up shut down emissions should also be included in this calculation.

All records must be maintained at the facility for a minimum of five years.

Parameter Monitored: PM 2.5

Upper Permit Limit: 54.07 tons per year

Reference Test Method: EPA approved

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-25: Capping Monitoring Condition  
Effective for entire length of Permit**



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

**Item 2-25.1:**

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 231-6.4

**Item 2-25.2:**

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

**Item 2-25.3:**

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 2-25.4:**

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 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 2-25.5:**

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 2-25.6:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 2-25.7:**

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

This condition will become effective upon commencement of operation of Luster Creek Energy Project(LCEP).





Particulate emissions from this Emission unit A-S0006 are limited to 54.07 tons per year.

The Facility must calculate the annual PM-10 emissions from LCEP sources: SCCS-8000H Siemens combustion turbine (Emission Source GT002) & duct burner (Emission Source DB001), and the Auxiliary boiler using AP 42 emission factors or most recent stack test data. The total start up shut down emissions should also be included in this calculation.

All records must be maintained at the facility for a minimum of five years.

Parameter Monitored: PARTICULATES  
Upper Permit Limit: 54.07 tons per year  
Reference Test Method: EPA approved  
Monitoring Frequency: MONTHLY  
Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 6 calendar month(s).

**Condition 2-26: Facility shakedown period  
Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR 231-3.9**

**Item 2-26.1:**  
This Condition applies to Emission Unit: A-S0006

**Item 2-26.2:** Upon commencement of operation, as defined in subparagraph 231-4.1(b)(11)(i), of a major facility or new or modified emission source(s) at an existing facility, the owner or operator is allowed a shakedown period for such major facility or modified emission source(s) according to the following provisions:

- (a) The shakedown period shall not exceed 180 days from the date of commencement of operation. The department may specify a shakedown period of less than 180 days in a permit.
- (b) The total mass emissions during the shakedown period must be quantified, in a manner approved by the department, and are to be included in the calculation demonstrating compliance with the permitted annual limit in tons per year (tpy) of the facility or emission source(s).
- (c) Emission limits other than annual emission limitations do not apply to a major facility or new or modified emission source(s) at an existing facility during the shakedown period. However, the owner or operator must make all reasonable efforts to minimize emissions during the shakedown period.

**Condition 2-27: Date of construction notification - If a COM is not used.  
Effective for entire length of Permit**



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

**Item 2-27.1:**

This Condition applies to Emission Unit: A-S0006

**Item 2-27.2:**

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 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 2-28: Performance testing timeline.  
Effective for entire length of Permit**

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

**Item 2-28.1:**

This Condition applies to Emission Unit: A-S0006

**Item 2-28.2:**

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 2-29: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 60.13(b), NSPS Subpart A**

**Item 2-29.1:**



The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

**Item 2-29.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

All continuous monitoring systems and monitoring devices shall be installed and operational prior to conducting performance tests under §60.8. Verification of operational status shall, as a minimum, include completion of the manufacturer's written requirements or recommendations for installation, operation, and calibration of the device.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 2-30: Compliance Certification  
Effective for entire length of Permit**

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

**Item 2-30.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

**Item 2-30.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This condition will become effective upon commencement of operation of Luster Creek Energy Project.

Facility must (1) Install, certify, maintain, and operate a continuous emission monitoring system (CEMS) consisting of a NOXmonitor and a diluent gas (oxygen (O2) or carbon dioxide (CO2)) monitor, to determine the hourly NOXemission rate in parts per million (ppm) or pounds per million British thermal units (lb/MMBtu); and

(2) For units complying with the output-based standard, install, calibrate, maintain, and operate a fuel flow meter (or flow meters) to continuously measure the heat input to the affected unit; and

(3) For units complying with the output-based standard, install, calibrate, maintain, and operate a watt meter (or meters) to continuously measure the gross electrical output of the unit in megawatt-hours; and



(4) For combined heat and power units complying with the output-based standard, install, calibrate, maintain, and operate meters for useful recovered energy flow rate, temperature, and pressure, to continuously measure the total thermal energy output in British thermal units per hour (Btu/h).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 6 calendar month(s).

**Condition 2-31: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement: 40CFR 60.4345, NSPS Subpart KKKK**

**Item 2-31.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

**Item 2-31.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If the option to use a NO<sub>x</sub> CEMS is chosen:

(a) Each NO<sub>x</sub> diluent CEMS must be installed and certified according to Performance Specification 2 (PS 2) in appendix B to 40 CFR 60, except the 7-day calibration drift is based on unit operating days, not calendar days. With state approval, Procedure 1 in appendix F to this part is not required. Alternatively, a NO<sub>x</sub> diluent CEMS that is installed and certified according to appendix A of part 75 of this chapter is acceptable for use under this subpart. The relative accuracy test audit (RATA) of the CEMS shall be performed on a lb/MMBtu basis.

(b) As specified in §60.13(e)(2), during each full unit operating hour, both the NO<sub>x</sub> monitor and the diluent monitor must complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each 15-minute quadrant of the hour, to validate the hour. For partial unit operating hours, at least one valid data point must be obtained with each monitor for each quadrant of the hour in which the unit operates. For unit operating hours in which required quality assurance and maintenance activities are performed on the CEMS, a minimum of two valid data points (one in each of two quadrants) are



required for each monitor to validate the NOX emission rate for the hour.

(c) Each fuel flowmeter shall be installed, calibrated, maintained, and operated according to the manufacturer's instructions. Alternatively, with state approval, fuel flowmeters that meet the installation, certification, and quality assurance requirements of appendix D to part 75 of this chapter are acceptable for use under this subpart.

(d) Each watt meter, steam flow meter, and each pressure or temperature measurement device shall be installed, calibrated, maintained, and operated according to manufacturer's instructions.

(e) The owner or operator shall develop and keep on-site a quality assurance (QA) plan for all of the continuous monitoring equipment described in paragraphs (a), (c), and (d) of this section. For the CEMS and fuel flow meters, the owner or operator may, with state approval, satisfy the requirements of this paragraph by implementing the QA program and plan described in section 1 of appendix B to part 75 of this chapter

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-32: Excess emissions identification using a CEM  
Effective for entire length of Permit**

**Applicable Federal Requirement: 40CFR 60.4350, NSPS Subpart KKKK**

**Item 2-32.1:**

This Condition applies to Emission Unit: A-S0006

**Item 2-32.2:** The procedures specified in 40 CFR 60.4350 shall be used to identify excess emissions from data supplied by a continuous emissions monitor.

**Condition 2-33: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement: 40CFR 60.4365, NSPS Subpart KKKK**

**Item 2-33.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006



**Item 2-33.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This condition will become effective upon commencement of operation of Luster Creek Energy Project.  
40 CFR 60.4365(b): Facility must use representative fuel sampling data which show that the sulfur content of the fuel does not exceed 26ng SO<sub>2</sub>/J (0.060 lb SO<sub>2</sub>/MMBtu) heat input. At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of appendix D to part 75 of this chapter is required.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-34: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 60.4370, NSPS Subpart KKKK**

**Item 2-34.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

**Item 2-34.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The frequency of determining the sulfur content of the fuel must be as follows:

(a) Fuel oil. For fuel oil, use one of the total sulfur sampling options and the associated sampling frequency described in sections 2.2.3, 2.2.4.1, 2.2.4.2, and 2.2.4.3 of appendix D to part 75 of this chapter ( i.e. , flow proportional sampling, daily sampling, sampling from the unit's storage tank after each addition of fuel to the tank, or sampling each delivery prior to combining it with fuel oil already in the intended storage tank).

(b) Gaseous fuel. If you elect not to demonstrate sulfur content using options in §60.4365, and the fuel is supplied without intermediate bulk storage, the sulfur content value of the gaseous fuel must be determined and recorded once per unit operating day.



Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING  
DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 6 calendar month(s).

**Condition 2-35: Initial performance test for facilities with NO<sub>x</sub> diluent  
CEMS**

**Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 60.4405, NSPS Subpart KKKK**

**Item 2-35.1:**

This Condition applies to Emission Unit: A-S0006

**Item 2-35.2:** If you elect to install and certify a NO<sub>x</sub>-diluent CEMS under §60.4345, then the initial performance test required under §60.8 may be performed in the following alternative manner:

- (a) Perform a minimum of nine RATA reference method runs, with a minimum time per run of 21 minutes, at a single load level, within plus or minus 25 percent of 100 percent of peak load. The ambient temperature must be greater than 0 °F during the RATA runs.
- (b) For each RATA run, concurrently measure the heat input to the unit using a fuel flow meter (or flow meters) and measure the electrical and thermal output from the unit.
- (c) Use the test data both to demonstrate compliance with the applicable NO<sub>x</sub>emission limit under §60.4320 and to provide the required reference method data for the RATA of the CEMS described under §60.4335.
- (d) Compliance with the applicable emission limit in §60.4320 is achieved if the arithmetic average of all of the NO<sub>x</sub>emission rates for the RATA runs, expressed in units of ppm or lb/MWh, does not exceed the emission limit.

**Condition 2-36: Testing requirements for sulfur dioxide  
Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 60.4415, NSPS Subpart KKKK**

**Item 2-36.1:**

This Condition applies to Emission Unit: A-S0006

**Item 2-36.2:** The testing requirements for sulfur dioxide emissions are specified in 40 CFR 60.4415 and must be implemented for this facility.

**Condition 2-37: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 63.6100, Subpart YYYY**

**Item 2-37.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

**New York State Department of Environmental Conservation**

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185



Regulated Contaminant(s):

CAS No: 000050-00-0      FORMALDEHYDE

**Item 2-37.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

For each new or reconstructed stationary combustion turbine that is a lean premix gas- or oil-fired, or a diffusion flame gas- or oil-fired, the facility must limit the concentration of formaldehyde to 91 ppbv or less at 15% oxygen.

Compliance shall be demonstrated by following the requirements for performance testing in 40 CFR 63.6120. Continuous compliance shall be demonstrated by establishing the operating parameters in Table 2 and following the requirements in Table 5 of subpart YYYY.

Parameter Monitored: FORMALDEHYDE

Upper Permit Limit: 91 parts per billion by volume (dry, corrected to 15% O<sub>2</sub>)

Reference Test Method: EPA Method 320 of 40 CFR 63 Appendix A

Monitoring Frequency: ANNUALLY

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-38:      Deadline for initial compliance demonstration  
Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 63.6110(a), Subpart YYYY**

**Item 2-38.1:**

This Condition applies to    Emission Unit: A-S0006

**Item 2-38.2:**

The facility must conduct the applicable initial performance test or initial compliance demonstration in Table 4 of subpart YYYY within 180 calendar days after the compliance date that is specified in 40 CFR 63.6095 and according to the provisions in 40 CFR 63.7(a)(2).

**Condition 2-39:      Performance test procedures  
Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 63.6120, Subpart YYYY**

**Item 2-39.1:**

This Condition applies to    Emission Unit: A-S0006





**Item 2-39.2:**

The facility must conduct each performance test in Table 3 of subpart YYYY that applies.

Each performance test must be conducted according to the requirements of the general provisions in 40 CFR 63.7(e)(1) and under the specific condition in Table 2 of subpart YYYY.

The facility must not conduct performance tests or compliance evaluations during periods of startup, shutdown, or malfunction. Performance tests must be conducted at high load, defined as 100% +/- 10%.

The facility must conduct three separate test runs for each performance test, and each test run must last at least one hour.

**Condition 2-40: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement: 40CFR 63.6125(a), Subpart YYYY**

**Item 2-40.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

**Item 2-40.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This condition becomes effective upon the commencement of operation of LCEP.

If the facility is operating a stationary combustion turbine that is required to comply with the formaldehyde emission limit and the facility uses an oxidation catalyst emission control device, the facility must monitor on a continuous basis the catalyst inlet temperature and maintain the 4-hour rolling average of the inlet temperature within the range suggested by the catalyst manufacturer in order to comply with the operating limits in Table 2.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-41: Compliance Certification**  
**Effective for entire length of Permit**

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



**Item 2-41.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

Process: 001

Emission Source: GT002

**Item 2-41.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

This condition will become effective upon the commercial operation of LCEP.

The turbine shutdown shall not exceed the 55 minutes (when turbine firing natural gas) from the point when the stop signal is initiated. The owner or operator shall record the date and time of each period of shutdown. A report consisting of the recorded information shall be submitted to the Department quarterly with the required excess emission report.

Parameter Monitored: DURATION OF SHUTDOWN

Upper Permit Limit: 60 minutes

Monitoring Frequency: CONTINUOUS

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED PER  
OCCURRENCE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 2-42: Compliance Certification  
Effective for entire length of Permit**

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

**Item 2-42.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

Process: 001

Emission Source: GT002

**Item 2-42.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

This condition will become effective upon the commercial operation of LCEP.

Start-up of turbine shall not exceed 60 minutes from the

**New York State Department of Environmental Conservation**

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185



point that the combustion turbine begins firing fuel(natural gas). The owner or operator shall record the date and time of each period of start-up. A report consisting of the recorded information shall be submitted to the Department quarterly with the required excess emission report.

Parameter Monitored: DURATION OF START UP

Upper Permit Limit: 60 minutes

Monitoring Frequency: CONTINUOUS

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED PER OCCURRENCE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 2-43: Compliance Certification  
Effective for entire length of Permit**

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

**Item 2-43.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

Process: 001

Emission Source: GT002

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

**Item 2-43.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This condition will become effective upon the commercial operation of Luyster Creek Energy Project.

The Turbine VOC emissions in this process((turbine firing natural gas) shall be limited to 3.5 pounds per hour.

Once during the permit term, facility must perform VOC emission stack test o to demonstrate compliance with the permit limit. A Stack test protocol shall be submitted to the Department at least 30 days prior to the test for approval, and the Stack test report shall be submitted to the Department within 60 days of the test for approval.

Parameter Monitored: VOC

Upper Permit Limit: 3.5 pounds per hour

Reference Test Method: EPA approved

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST

**New York State Department of Environmental Conservation**

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185



**METHOD INDICATED**

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-44: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 2-44.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

Process: 001

Emission Source: GT002

Regulated Contaminant(s):

CAS No: 0NY075-02-5 PM 2.5

**Item 2-44.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This condition will become effective upon the commercial operation of Luyster Creek Energy Project.

The Turbine PM 2.5 emissions in this process((turbine firing natural gas) shall be limited to 10.9 pounds per hour.

Once during the permit term, facility must perform PM 2.5 emission stack test o to demonstrate compliance with the permit limit. A Stack test protocol shall be submitted to the Department at least 30 days prior to the test for approval, and the Stack test report shall be submitted to the Department within 60 days of the test for approval.

Parameter Monitored: PM 2.5

Upper Permit Limit: 10.9 pounds per hour

Reference Test Method: EPA approved 201 A or 202

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST

**METHOD INDICATED**

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-45: Compliance Certification**  
**Effective for entire length of Permit**

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

**New York State Department of Environmental Conservation**

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185



**Item 2-45.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

Process: 001

Emission Source: GT002

Regulated Contaminant(s):

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

**Item 2-45.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This condition will become effective upon the commercial operation of Luyster Creek Energy Project.

The Turbine NOx emissions during the periods of steady state of its operation in this process(turbine firing natural gas) shall be limited to 0.0076 pounds/mmbtu.

Manufacturer Name/Model Number: TECO Model 421 or equivalent

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.0076 pounds per million Btus

Reference Test Method: EPA approved

Monitoring Frequency: CONTINUOUS

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -

SEE MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-46: Compliance Certification**

**Effective for entire length of Permit**

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

**Item 2-46.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

Process: 001

Emission Source: GT002

Regulated Contaminant(s):

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

**Item 2-46.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

**New York State Department of Environmental Conservation**

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185



This condition will become effective upon the commercial operation of Luyster Creek Energy Project.

The Turbine NOx emissions during the periods of steady state of its operation in this process((turbine firing natural gas)) shall be limited to 20 pounds/hour.

Manufacturer Name/Model Number: TECO Model 421 or equivalent  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 20 pounds per hour  
Reference Test Method: EPA approved  
Monitoring Frequency: CONTINUOUS  
Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -  
SEE MONITORING DESCRIPTION  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 3 calendar month(s).

**Condition 2-47: Compliance Certification  
Effective for entire length of Permit**

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

**Item 2-47.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006  
Process: 001 Emission Source: GT002

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

**Item 2-47.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)  
Monitoring Description:

This condition will become effective upon the commercial operation of Luyster Creek Energy Project.

The Turbine NOx emissions during the periods of steady state of its operation in this process (turbine firing natural gas) shall be limited to 2 ppmvd 15% oxygen.

Manufacturer Name/Model Number: TECO Model 421 or equivalent  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 2 parts per million by volume (dry,  
corrected to 15% O2)  
Reference Test Method: EPA approved  
Monitoring Frequency: CONTINUOUS  
Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -  
SEE MONITORING DESCRIPTION



Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 3 calendar month(s).

**Condition 2-48: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 2-48.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006  
Process: 001 Emission Source: GT002

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

**Item 2-48.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)  
Monitoring Description:

This condition will become effective upon the commercial operation of Luyster Creek Energy Project.

The NO<sub>x</sub> emissions are limited 59 pounds per shut down in this process. The emissions in excess of this limit shall be reported in the excess emissions report. All records shall be maintained at the facility for at least five years.

Manufacturer Name/Model Number: TECO Model 421 or equivalent  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 59 pounds  
Reference Test Method: EPA approved  
Monitoring Frequency: CONTINUOUS  
Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -  
SEE MONITORING DESCRIPTION  
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 2-49: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 2-49.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006  
Process: 001 Emission Source: GT002



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

**Item 2-49.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This condition will become effective upon the commercial operation of Luyster Creek Energy Project.

The NO<sub>x</sub> emissions are limited 130 pounds per start up in this process. The emissions in excess of this limit shall be reported in the excess emissions report. All records shall be maintained at the facility for at least five years.

Manufacturer Name/Model Number: TECO Model 421 or equivalent

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 130 pounds

Reference Test Method: EPA approved

Monitoring Frequency: CONTINUOUS

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

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 2-50: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 2-50.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

Process: 001

Emission Source: GT002

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 2-50.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This condition will become effective upon the commercial operation of Luyster Creek Energy Project.

The CO emissions are limited 434 pounds per start up in this process. The emissions in excess of this limit shall be reported in the excess emissions report. All records shall be maintained at the facility for at least five





years.

Manufacturer Name/Model Number: TECO Model 42C or equivalent  
Parameter Monitored: CARBON MONOXIDE  
Upper Permit Limit: 434 pounds  
Reference Test Method: EPA approved  
Monitoring Frequency: CONTINUOUS  
Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -  
SEE MONITORING DESCRIPTION  
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 2-51: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 2-51.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006  
Process: 001 Emission Source: GT002

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

**Item 2-51.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)  
Monitoring Description:

This condition will become effective upon the commercial operation of Luyster Creek Energy Project.

The CO emissions are limited 108 pounds per shut down in this process(turbine burning gas). The emissions in excess of this limit shall be reported in the excess emissions report. All records shall be maintained at the facility for at least five years.

Manufacturer Name/Model Number: TECO Model 42C or equivalent  
Parameter Monitored: CARBON MONOXIDE  
Upper Permit Limit: 108 pounds  
Reference Test Method: EPA approved  
Monitoring Frequency: CONTINUOUS  
Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -  
SEE MONITORING DESCRIPTION  
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 2-52: Compliance Certification**  
**Effective for entire length of Permit**

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

**New York State Department of Environmental Conservation**

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185



**Item 2-52.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

Process: 001

Emission Source: GT002

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 2-52.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This condition will become effective upon commencement of operation of Luster Creek Energy Project(LCEP).

The Turbine Carbon Monoxide(CO) emissions during the periods of steady state of its operation when turbine firing natural gas shall be limited to 20 pounds per hour.

Manufacturer Name/Model Number: TECO Model 42C or equivalent

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 20 pounds per hour

Reference Test Method: EPA approved

Monitoring Frequency: CONTINUOUS

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

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-53: Capping Monitoring Condition  
Effective for entire length of Permit**

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

**Item 2-53.1:**

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 231-6.4

**Item 2-53.2:**

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

**Item 2-53.3:**

**New York State Department of Environmental Conservation**

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185



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 2-53.4:**

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 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 2-53.5:**

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 2-53.6:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

Process: 001

Emission Source: GT002

Regulated Contaminant(s):

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

**Item 2-53.7:**

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

This condition will become effective upon commencement of operation of Luster Creek Energy Project(LCEP).

Hours of operation of turbine firing natural gas shall be limited to 3695 hours per year.

Work Practice Type: HOURS PER YEAR OPERATION

Upper Permit Limit: 3695 hours per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MINIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-54: Compliance Certification  
Effective for entire length of Permit**



**Applicable Federal Requirement:40CFR 60.4320(a), NSPS Subpart**

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**Item 2-54.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006  
Process: 001 Emission Source: GT002

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

**Item 2-54.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This condition will become effective upon commencement of operation of Luster Creek Energy Project(LCEP).

Turbine NOx emissions when firing natural gas must not exceed the 15 ppm at 15% O<sub>2</sub>.

Manufacturer Name/Model Number: TECO Model 421 or equivalent

Parameter Monitored: OXIDES OF NITROGEN

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

Reference Test Method: EPA Approved

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-55: Compliance Certification  
Effective for entire length of Permit**

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

**Item 2-55.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006  
Process: 002 Emission Source: GT002

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

**Item 2-55.2:**

Compliance Certification shall include the following monitoring:



Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This condition will become effective upon the commercial operation of Luyster Creek Energy Project.

The Turbine VOC emissions in this process (turbine firing natural gas with duct burner) shall be limited to 4.2 pounds per hour.

Once during the permit term, facility must perform VOC emission stack test to demonstrate compliance with the permit limit. A Stack test protocol shall be submitted to the Department at least 30 days prior to the test for approval, and the Stack test report shall be submitted to the Department within 60 days of the test for approval.

Parameter Monitored: VOC

Upper Permit Limit: 4.2 pounds per hour

Reference Test Method: EPA approved

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-56: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 2-56.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

Process: 002

Emission Source: GT002

Regulated Contaminant(s):

CAS No: 0NY075-02-5 PM 2.5

**Item 2-56.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This condition will become effective upon the commercial operation of Luyster Creek Energy Project.

The Turbine PM 2.5 emissions in this process (turbine firing natural gas with duct burner) shall be limited to 11.3 pounds per hour.

**New York State Department of Environmental Conservation**

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185



Once during the permit term, facility must perform PM 2.5 emission stack test o to demonstrate compliance with the permit limit. A Stack test protocol shall be submitted to the Department at least 30 days prior to the test for approval, and the Stack test report shall be submitted to the Department within 60 days of the test for approval.

Parameter Monitored: PM 2.5

Upper Permit Limit: 11.3 pounds per hour

Reference Test Method: EPA approved 201 A or 202

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-57: Compliance Certification  
Effective for entire length of Permit**

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

**Item 2-57.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

Process: 002

Emission Source: GT002

Regulated Contaminant(s):

CAS No: 0NY210-00-0

OXIDES OF NITROGEN

**Item 2-57.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This condition will become effective upon the commercial operation of Luyster Creek Energy Project.

The Turbine NOx emissions during the periods of steady state of its operation in this process(turbine firing natural gas with duct burner) shall be limited to 0.0076 pounds/mmbtu.

Manufacturer Name/Model Number: TECO Model 421 or equivalent

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.0076 pounds per million Btus

Reference Test Method: EPA approved

Monitoring Frequency: CONTINUOUS

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

**New York State Department of Environmental Conservation**

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185



Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 3 calendar month(s).

**Condition 2-58: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 2-58.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

Process: 002

Emission Source: GT002

Regulated Contaminant(s):

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

**Item 2-58.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This condition will become effective upon the commercial operation of Luyster Creek Energy Project.

The Turbine NOx emissions during the periods of steady state of its operation in this process(turbine firing natural gas with duct burner) shall be limited to 2 ppmvd 15% oxygen.

Manufacturer Name/Model Number: TECO Model 421 or equivalent

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 2 parts per million by volume (dry, corrected to 15% O2)

Reference Test Method: EPA approved

Monitoring Frequency: CONTINUOUS

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

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-59: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 2-59.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

**New York State Department of Environmental Conservation**

**Permit ID: 2-6301-00185/00009**

**Facility DEC ID: 2630100185**



Process: 002

Emission Source: GT002

Regulated Contaminant(s):

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

**Item 2-59.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This condition will become effective upon the commercial operation of Luyster Creek Energy Project.

The Turbine NOx emissions during the periods of steady state of its operation in this process((turbine firing natural gas with duct burner) shall be limited to 20 pounds/hour.

Manufacturer Name/Model Number: TECO Model 421 or equivalent

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 20 pounds per hour

Reference Test Method: EPA approved

Monitoring Frequency: CONTINUOUS

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

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-60: Compliance Certification  
Effective for entire length of Permit**

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

**Item 2-60.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

Process: 002

Emission Source: GT002

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 2-60.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This condition will become effective upon the commercial operation of Luyster Creek Energy Project.

The Turbine CO emissions during the periods of steady



**New York State Department of Environmental Conservation**

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185



state of its operation in this process(turbine firing natural gas with duct burner) shall be limited to 20 pounds per hour.

Manufacturer Name/Model Number: TECO Model 42C or equivalent  
Parameter Monitored: CARBON MONOXIDE  
Upper Permit Limit: 20 pounds per hour  
Reference Test Method: EPA approved  
Monitoring Frequency: CONTINUOUS  
Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -  
SEE MONITORING DESCRIPTION  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 3 calendar month(s).

**Condition 2-61: Capping Monitoring Condition  
Effective for entire length of Permit**

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

**Item 2-61.1:**

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 231-6.4

**Item 2-61.2:**

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

**Item 2-61.3:**

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 2-61.4:**

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 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 2-61.5:**

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 2-61.6:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006  
Process: 002 Emission Source: GT002

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

**Item 2-61.7:**

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC  
OPERATIONS

Monitoring Description:

This condition will become effective upon commencement  
of operation of Luster Creek Energy Project.

Operation Hours of Combustion turbine firing natural gas  
with duct burner firing on natural gas shall be limited to  
3914 hours per year.

Work Practice Type: HOURS PER YEAR OPERATION

Upper Permit Limit: 3914 hours per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MINIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-62: Compliance Certification  
Effective for entire length of Permit**

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

**Item 2-62.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006  
Process: 003 Emission Source: GT002

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

**Item 2-62.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

This condition becomes effective upon the commencement

**New York State Department of Environmental Conservation**

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185



of operation of Luyster Creek Energy Project

The sulfur content oil (ultra low sulfur diesel (ULSD)  
fired in the turbine shall be limited to 15 ppm .

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: ULTRA LOW SULFUR DIESEL FUEL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 15 parts per million by weight

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: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-63: Compliance Certification  
Effective for entire length of Permit**

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

**Item 2-63.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

Process: 003

Emission Source: GT002

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

**Item 2-63.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This condition will become effective upon the commercial  
operation of Luyster Creek Energy Project.

The Turbine VOC emissions in this process (turbine firing  
ULSD - no duct burner) shall be limited to 3.5 pounds per  
hour.

Once during the permit term, facility must perform VOC  
emission stack test o to demonstrate compliance with the  
permit limit. A Stack test protocol shall be submitted to  
the Department at least 30 days prior to the test for  
approval, and the Stack test report shall be submitted to  
the Department within 60 days of the test for approval.

Parameter Monitored: VOC

Upper Permit Limit: 3.5 pounds per hour

New York State Department of Environmental Conservation  
Permit ID: 2-6301-00185/00009 Facility DEC ID: 2630100185



Reference Test Method: EPA approved  
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT  
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST  
METHOD INDICATED  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 6 calendar month(s).

**Condition 2-64: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 2-64.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006  
Process: 003 Emission Source: GT002

Regulated Contaminant(s):  
CAS No: 0NY075-02-5 PM 2.5

**Item 2-64.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This condition will become effective upon the commercial operation of Luyster Creek Energy Project.

The Turbine PM 2.5 emissions in this process (turbine firing ULSD - no duct burner) shall be limited to 30 pounds per hour.

Once during the permit term, facility must perform PM 2.5 emission stack test o to demonstrate compliance with the permit limit. A Stack test protocol shall be submitted to the Department at least 30 days prior to the test for approval, and the Stack test report shall be submitted to the Department within 60 days of the test for approval.

Parameter Monitored: PM 2.5

Upper Permit Limit: 30 pounds per hour

Reference Test Method: EPA approved 201 A or 202

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST  
METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-65: Compliance Certification**



**Effective for entire length of Permit**

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

**Item 2-65.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006  
Process: 003 Emission Source: GT002

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

**Item 2-65.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This condition will become effective upon the commercial operation of Luyster Creek Energy Project.

The Turbine NOx emissions during the periods of steady state of its operation in this process (turbine firing ULSD - no duct burner) shall be limited to 50 pounds/hour.

Manufacturer Name/Model Number: TECO Model 421 or equivalent  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 50 pounds per hour  
Reference Test Method: EPA approved  
Monitoring Frequency: CONTINUOUS  
Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -  
SEE MONITORING DESCRIPTION  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 3 calendar month(s).

**Condition 2-66: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 2-66.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006  
Process: 003 Emission Source: GT002

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

**Item 2-66.2:**

**New York State Department of Environmental Conservation**

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185



Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This condition will become effective upon the commercial operation of Luyster Creek Energy Project.

The Turbine NOx emissions during the periods of steady state of its operation in this process (turbine firing ULSD - no duct burner) shall be limited to 5 ppmvd 15% oxygen.

Manufacturer Name/Model Number: TECO Model 421 or equivalent

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 5 parts per million by volume (dry, corrected to 15% O2)

Reference Test Method: EPA approved

Monitoring Frequency: CONTINUOUS

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

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-67: Compliance Certification  
Effective for entire length of Permit**

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

**Item 2-67.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

Process: 003

Emission Source: GT002

Regulated Contaminant(s):

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

**Item 2-67.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This condition will become effective upon the commercial operation of Luyster Creek Energy Project.

The Turbine NOx emissions during the periods of steady state of its operation in this process (turbine firing ULSD - no duct burner) shall be limited to 0.0221 pounds/mmbtu.

Manufacturer Name/Model Number: TECO Model 421 or equivalent

New York State Department of Environmental Conservation

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185



Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 0.0221 pounds per million Btus  
Reference Test Method: EPA approved  
Monitoring Frequency: CONTINUOUS  
Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -  
SEE MONITORING DESCRIPTION  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 3 calendar month(s).

**Condition 2-68: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 2-68.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006  
Process: 003 Emission Source: GT002

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

**Item 2-68.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)  
Monitoring Description:

This condition will become effective upon the commercial operation of Luyster Creek Energy Project.

The Turbine CO emissions during the periods of steady state of its operation in this process (turbine firing ULSD - no duct burner) shall be limited to 24 pounds per hour.

Manufacturer Name/Model Number: TECO Model 421 or equivalent  
Parameter Monitored: CARBON MONOXIDE  
Upper Permit Limit: 24 pounds per hour  
Reference Test Method: EPA approved  
Monitoring Frequency: CONTINUOUS  
Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -  
SEE MONITORING DESCRIPTION  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 3 calendar month(s).

**Condition 2-69: Capping Monitoring Condition**  
**Effective for entire length of Permit**

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

**New York State Department of Environmental Conservation**

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185



**Item 2-69.1:**

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 231-6.4

**Item 2-69.2:**

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

**Item 2-69.3:**

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 2-69.4:**

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 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 2-69.5:**

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 2-69.6:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

Process: 003

Emission Source: GT002

Regulated Contaminant(s):

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

**Item 2-69.7:**

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

This condition will become effective upon commencement of operation of Luster Creek Energy Project(LCEP).



**New York State Department of Environmental Conservation**

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185



Hours of operation of turbine firing oil shall be limited to 712 hours per year.

Work Practice Type: HOURS PER YEAR OPERATION  
Upper Permit Limit: 712 hours per year  
Monitoring Frequency: MONTHLY  
Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 6 calendar month(s).

**Condition 2-70: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 60.4320(a), NSPS Subpart**

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**Item 2-70.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

Process: 003

Emission Source: GT002

Regulated Contaminant(s):

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

**Item 2-70.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Turbine NOx emissions when firing oil must not exceed the 42 ppm at 15% O2.

Manufacturer Name/Model Number: TECO Model 421 or equivalent

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 42 parts per billion by volume (dry, corrected to 15% O2)

Reference Test Method: EPA Approved

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-71: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 2-71.1:**



The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

Process: 004

Emission Source: AB001

Regulated Contaminant(s):

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

**Item 2-71.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC  
OPERATIONS

Monitoring Description:

Auxiliary boiler operation hours are  
limited to 1500 hours per  
year.







**New York State Department of Environmental Conservation**

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185



x emissions from the auxiliary boiler  
shall be limited to 0.029lbs/mmbtu.

Work Practice Type: HOURS PER YEAR OPERATION

Upper Permit Limit: 1500 hours

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-72: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 2-72.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

Process: 004

Emission Source: AB001

Regulated Contaminant(s):

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

**Item 2-72.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Auxiliary boiler Oxides of Nitrogen shall  
be limited to  
0.029lbs/mmbtu











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x emissions from the auxiliary boiler shall be limited to 0.029lbs/mmbtu.

Upper Permit Limit: 0.029 pounds per million Btus

Reference Test Method: EPA approved

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST

METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-73: Compliance Certification  
Effective for entire length of Permit**

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

**Item 2-73.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

Process: 004

Emission Source: AB001

**Item 2-73.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner and operator of each affected facility shall

**New York State Department of Environmental Conservation**

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185



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 2-74: Compliance Certification  
Effective for entire length of Permit**

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

**Item 2-74.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006

Emission Point: 00061

**Item 2-74.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Turbine(GT002) start up is limited to 100 times per year.

Turbine(GT002) shut down is limited to 100 times per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-75: Compliance Certification  
Effective for entire length of Permit**

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



**Item 2-75.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006 Emission Point: 00061

Regulated Contaminant(s):  
CAS No: 007664-41-7 AMMONIA

**Item 2-75.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This condition will become effective upon the commercial operation of Luyster Creek Energy Project.

The Turbine Ammonia emissions during the periods of steady state of its operation shall be limited to 5 ppmvd 15% oxygen.

Manufacturer Name/Model Number: TECO Model 421 or equivalent

Parameter Monitored: AMMONIA

Upper Permit Limit: 5 parts per million by volume (dry, corrected to 15% O<sub>2</sub>)

Reference Test Method: EPA approved

Monitoring Frequency: CONTINUOUS

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

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-76: Compliance Certification  
Effective for entire length of Permit**

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

**Item 2-76.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006 Emission Point: 00061

**Item 2-76.2:**

Compliance Certification 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. 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: DAILY  
Averaging Method: 6-MINUTE AVERAGE (METHOD 9)  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 6 calendar month(s).

**Condition 2-77: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR 227.2 (b) (1)**

**Item 2-77.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006  
Process: 003

Emission Point: 00061  
Emission Source: GT002



Regulated Contaminant(s):  
CAS No: ONY075-00-0 PARTICULATES

**Item 2-77.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The two hour average emission of particulates from this stationary combustion installation shall not exceed 0.10 pounds per million Btu of heat input.

At the monitoring frequency stated below the facility shall perform the following:

- 1) Submit to the Department an acceptable protocol for the testing of particulate emissions in a manner that will determine compliance with the limit cited in this condition.
- 2) Perform a stack test, based upon the approved test protocol, to determine compliance with the particulate emission limit cited in this condition.
- 3) Submit an acceptable stack test report that outlines the results obtained from the testing done to meet the requirement of #2 above.
- 4) Facility shall keep records of all testing done at this stationary combustion installation for a period of 5 years.

Parameter Monitored: PARTICULATES  
Upper Permit Limit: 0.10 pounds per million Btus  
Reference Test Method: EPA RM 5  
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT  
Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 6 calendar month(s).

**Condition 2-78: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 2-78.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0006 Emission Point: 00071



**Item 2-78.2:**

Compliance Certification 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. 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: DAILY

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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







**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: 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 applicable requirements and are not subject to compliance certification requirements unless otherwise noted or required under 6 NYCRR Part 201.**

**Condition 80: Contaminant List**  
**Effective between the dates of 09/28/2007 and Permit Expiration Date**

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

**Item 80.1:**

Emissions of the following contaminants are subject to contaminant specific requirements in this permit(emission limits, control requirements or compliance monitoring conditions).

CAS No: 000050-00-0  
Name: FORMALDEHYDE



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: 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 2-79: Unavoidable noncompliance and violations  
Effective for entire length of Permit**

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

**Item 2-79.1:**

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 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 2-80: Visible Emissions Limited**  
**Effective for entire length of Permit**

**Applicable State Requirement:6 NYCRR 211.2**

**Item 2-80.1:**

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 2-81: CO2 Budget Trading Program - Excess emission requirements**  
**Effective for entire length of Permit**

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

**Item 2-81.1:**

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 2-82: Compliance Demonstration**  
**Effective for entire length of Permit**



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

**Item 2-82.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 2-82.2:**

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 CO<sub>2</sub> authorized account representative of each CO<sub>2</sub> budget source and each CO<sub>2</sub> 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 CO<sub>2</sub> requirements:

(1) The owners and operators of each CO<sub>2</sub> budget source and each CO<sub>2</sub> budget unit at the source shall hold CO<sub>2</sub> allowances available for compliance deductions under Section 242-6.5, as of the CO<sub>2</sub> allowance transfer deadline, in the source's compliance account in an amount not less than the total CO<sub>2</sub> emissions for the control period from all CO<sub>2</sub> budget units at the source, as determined in accordance with Subparts 242-6 and 242-8.

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

**Condition 2-83: Compliance Demonstration  
Effective for entire length of Permit**

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

**Item 2-83.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 2-83.2:**

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 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 CO<sub>2</sub> authorized account representative for the source and each CO<sub>2</sub> 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.

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

