

**New York State Department of Environmental Conservation**  
**Facility DEC ID: 2630100072**



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

**IDENTIFICATION INFORMATION**

Permit Type: Air Title V Facility  
Permit ID: 2-6301-00072/00014  
Mod 0 Effective Date: 05/10/2002 Expiration Date: 05/10/2007  
Mod 1 Effective Date: 01/21/2004 Expiration Date: 05/10/2007  
Mod 2 Effective Date: 12/27/2005 Expiration Date: 05/10/2007

Permit Issued To: ASTORIA ENERGY LLC  
85 MAIN STREET  
CONCORD, MA 01742

Contact: ASTORIA ENERGY LLC  
85 MAIN STREET  
CONCORD, MA 01742  
(978) 287-9529

Facility: ASTORIA ENERGY LLC  
17-10 STEINWAY ST  
ASTORIA, NY 11105-1097

Contact: MARISA MASCARO  
ASTORIA ENERGY LLC  
85 MAIN STREET  
CONCORD, MA 01742  
(978) 287-9529

**Description:**

This is a modification to add conditions and language to the permit that deal with the issue of start-up, shutdown, and fuel switching emission limits. The conditions require the applicant to collect data during all start-ups, shutdowns, and fuel switches. The applicant will collect this data for a period of one year. Once the data has been obtained the applicant will be required to propose limits for start-up, shutdown, and fuel switching, to the Department, as part of a permit modification.

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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:            WILLIAM R ADRIANCE  
   DIVISION OF ENVIRONMENTAL PERMITS  
   625 BROADWAY  
   ALBANY, NY 12233-1750

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 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 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 and Modifications

Applications for Permit Renewals and Modifications

Permit Modifications, Suspensions and Revocations by the Department

Permit Modifications, Suspensions, and Revocations by the Department

**Facility Level**

Submission of Applications 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 1-1: Applications for Permit Renewals and Modifications**  
**Applicable State Requirement: 6NYCRR 621.13**

**Item 1-1.1:**

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 1-1.2:**

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 1-1.3:**



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

**Condition 3: Applications for Permit Renewals and Modifications**  
**Applicable State Requirement: 6NYCRR 621.13(a)**

**Expired by Mod No: 1**

**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.

**Condition 1-2: Permit Modifications, Suspensions and Revocations by the Department**  
**Applicable State Requirement: 6NYCRR 621.14**

**Item 1-2.1:**

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.

**Condition 4: Permit Modifications, Suspensions, and Revocations by the Department**  
**Applicable State Requirement: 6NYCRR 621.14**

**Expired by Mod No: 1**

**Item 4.1:**

The Department reserves the right to modify, suspend, or revoke this permit. The grounds for modification, suspension or revocation include:

- a) the scope of the permitted activity is exceeded or a violation of any condition of the permit or provisions of the ECL and pertinent regulations is found;
- b) the permit was obtained by misrepresentation or failure to disclose relevant facts;
- c) new material information is discovered; or
- d) environmental conditions, relevant technology, or applicable law or regulation have

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materially changed since the permit was issued.

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

**Condition 5: Submission of Applications for Permit Modification or Renewal-REGION 2 HEADQUARTERS**  
**Applicable State Requirement: 6NYCRR 621.5(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



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

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

**IDENTIFICATION INFORMATION**

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85 MAIN STREET  
CONCORD, MA 01742

Facility: ASTORIA ENERGY LLC  
17-10 STEINWAY ST  
ASTORIA, NY 11105-1097

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

Mod 0 Permit Effective Date: 05/10/2002

Permit Expiration Date: 05/10/2007

Mod 1 Permit Effective Date: 01/21/2004

Permit Expiration Date: 05/10/2007

Mod 2 Permit Effective Date: 12/27/2005

Permit Expiration Date: 05/10/2007



**LIST OF CONDITIONS**

**FEDERALLY ENFORCEABLE CONDITIONS**

**Facility Level**

- 2-1 6NYCRR 200.6: Acceptable Ambient Air Quality
- 2-2 6NYCRR 201-6.5(a)(7): Fees
- 1-1 6NYCRR 201-6.5(c): Recordkeeping and reporting of compliance monitoring
- 1-2 6NYCRR 201-6.5(c)(2): Monitoring, Related Recordkeeping, and Reporting Requirements.
- 24 6NYCRR 201-6.5(c)(3)(ii): Compliance Certification
- 25 6NYCRR 201-6.5(e): Compliance Certification
- 31 6NYCRR 202-2.1: Compliance Certification
- 32 6NYCRR 202-2.5: Recordkeeping requirements
- 2-3 6NYCRR 215: Open Fires Prohibited at Industrial and Commercial Sites
- 2-4 6NYCRR 200.7: Maintenance of Equipment
- 2-5 6NYCRR 201-1.7: Recycling and Salvage
- 2-6 6NYCRR 201-1.8: Prohibition of Reintroduction of Collected Contaminants to the air
- 2-7 6NYCRR 201-3.2(a): Exempt Sources - Proof of Eligibility
- 2-8 6NYCRR 201-3.3(a): Trivial Sources - Proof of Eligibility
- 2-9 6NYCRR 201-6.5(a)(4): Standard Requirement - Provide Information
- 2-10 6NYCRR 201-6.5(a)(8): General Condition - Right to Inspect
- 2-11 6NYCRR 201-6.5(d)(5): Standard Requirements - Progress Reports
- 2-12 6NYCRR 201-6.5(f)(6): Off Permit Changes
- 2-13 6NYCRR 202-1.1: Required Emissions Tests
- 2-14 6NYCRR 211.3: Visible Emissions Limited
- 2-15 40CFR 68: Accidental release provisions.
- 2-16 40CFR 82, Subpart F: Recycling and Emissions Reduction
- 2-17 6NYCRR 201-6: Steady state and fuel switching emission limit applicability.
- 23 6NYCRR 201-6: Emission Unit Definition
- 2-18 6NYCRR 201-6: Compliance Certification
- 27 6NYCRR 201-6.5(g): Non Applicable requirements
- 29 6NYCRR 202-1.5: Prohibitions
- 30 6NYCRR 202-2: Emission Statements
- 33 6NYCRR 204-1.6: Permit requirements (facilities commencing operation on or after 01/00)
- 34 6NYCRR 207: Submittal of Episode Action Plans
- 37 6NYCRR 231-2.4: Notification/Reporting requirements
- 38 6NYCRR 231-2.4: Emission offset requirements
- 39 40CFR 52.21(j), Subpart A: Compliance Certification
- 40 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
- 41 40CFR 60.7(a), NSPS Subpart A: Date of construction notification - If a COM is not used.
- 42 40CFR 60.7(b), NSPS Subpart A: Recordkeeping requirements.



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- 43 40CFR 60.7(c), NSPS Subpart A: Excess emissions report.
- 44 40CFR 60.7(d), NSPS Subpart A: Excess emissions report.
- 45 40CFR 60.7(f), NSPS Subpart A: Facility files for subject sources.
- 46 40CFR 60.8(a), NSPS Subpart A: Performance testing timeline.
- 47 40CFR 60.8(b), NSPS Subpart A: Performance test methods.
- 48 40CFR 60.8(c), NSPS Subpart A: Required performance test information.
- 49 40CFR 60.8(d), NSPS Subpart A: Prior notice.
- 50 40CFR 60.8(e), NSPS Subpart A: Performance testing facilities.
- 51 40CFR 60.8(f), NSPS Subpart A: Number of required tests.
- 52 40CFR 60.9, NSPS Subpart A: Availability of information.
- 53 40CFR 60.11, NSPS Subpart A: Opacity standard compliance testing.
- 54 40CFR 60.12, NSPS Subpart A: Circumvention.
- 55 40CFR 60.13, NSPS Subpart A: Monitoring requirements.
- 56 40CFR 60.14, NSPS Subpart A: Modifications.
- 57 40CFR 60.15, NSPS Subpart A: Reconstruction
- 58 40CFR 72: Facility Subject to Title IV Acid Rain Regulations and Permitting

**Emission Unit Level**

- 60 6NYCRR 201-6: Emission Point Definition By Emission Unit
- 61 6NYCRR 201-6: Process Definition By Emission Unit

**EU=U-00001**

- 62 6NYCRR 231-2.5: Compliance Certification
- 63 6NYCRR 231-2.5: Compliance Certification
- 64 6NYCRR 231-2.5: Compliance Certification
- 65 6NYCRR 231-2.6: Compliance Certification
- 66 6NYCRR 231-2.6: Compliance Certification
- 67 6NYCRR 231-2.6: Compliance Certification
- 68 6NYCRR 231-2.9: Compliance Certification
- 69 40CFR 52.21, Subpart A: Compliance Certification
- 70 40CFR 60.48c(a), NSPS Subpart Dc: Compliance Certification

**EU=U-00001,Proc=P10**

- 72 40CFR 60.44c(g), NSPS Subpart Dc: Alternate compliance methods for sulfur dioxide.

**EU=U-00001,EP=00004**

- 73 6NYCRR 227-1.3(a): Compliance Certification
- 74 40CFR 52.21, Subpart A: Compliance Certification
- 1-4 40CFR 52.21(j), Subpart A: Compliance Certification
- 1-5 40CFR 52.21(j), Subpart A: Compliance Certification
- 1-6 40CFR 60.47a(c), NSPS Subpart Da: Compliance Certification

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- 1-7 6NYCRR 231-2.7(b): Compliance Certification
- 1-8 6NYCRR 231-2.7(b): Compliance Certification



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- 1-9 6NYCRR 231-2.7(b): Compliance Certification
- 75 6NYCRR 231-2.7(b): Compliance Certification
- 76 6NYCRR 231-2.7(b): Compliance Certification
- 77 6NYCRR 231-2.7(b): Compliance Certification
- 1-10 40CFR 52.21(j), Subpart A: Compliance Certification
- 1-11 40CFR 52.21(j), Subpart A: Compliance Certification
- 1-12 40CFR 52.21(j), Subpart A: Compliance Certification
- 1-13 40CFR 52.21(j), Subpart A: Compliance Certification
- 1-14 40CFR 52.21(j), Subpart A: Compliance Certification
- 1-15 40CFR 52.21(j), Subpart A: Compliance Certification
- 78 40CFR 52.21(j), Subpart A: Compliance Certification
- 80 40CFR 52.21(j), Subpart A: Compliance Certification
- 82 40CFR 60.334(b), NSPS Subpart GG: Custom fuel monitoring for nitrogen and sulfur content.
- 83 40CFR 60.334(b), NSPS Subpart GG: Compliance Certification

**EU=U-00001,EP=00004,Proc=P05,ES=BOIL1**

- 1-16 6NYCRR 227-2.4(c): Compliance Certification
- 84 6NYCRR 231-2.7(b): Compliance Certification
- 85 6NYCRR 231-2.7(b): Compliance Certification
- 86 6NYCRR 231-2.7(b): Compliance Certification
- 87 6NYCRR 231-2.7(b): Compliance Certification
- 88 6NYCRR 231-2.7(b): Compliance Certification
- 89 6NYCRR 231-2.7(b): Compliance Certification
- 90 40CFR 52.21(j), Subpart A: Compliance Certification
- 91 40CFR 52.21(j), Subpart A: Compliance Certification
- 92 40CFR 52.21(j), Subpart A: Compliance Certification
- 93 40CFR 52.21(j), Subpart A: Compliance Certification
- 94 40CFR 52.21(j), Subpart A: Compliance Certification

**EU=U-00001,EP=00004,Proc=P10**

- 1-17 6NYCRR 231-2.7(b): Compliance Certification
- 1-18 6NYCRR 231-2.7(b): Compliance Certification
- 1-19 6NYCRR 231-2.7(b): Compliance Certification
- 95 6NYCRR 231-2.7(b): Compliance Certification
- 96 6NYCRR 231-2.7(b): Compliance Certification
- 97 6NYCRR 231-2.7(b): Compliance Certification
- 1-20 40CFR 52.21(j), Subpart A: Compliance Certification
- 98 40CFR 52.21(j), Subpart A: Compliance Certification
- 99 40CFR 52.21(j), Subpart A: Compliance Certification
- 100 40CFR 52.21(j), Subpart A: Compliance Certification
- 101 40CFR 52.21(j), Subpart A: Compliance Certification
- 102 40CFR 52.21(j), Subpart A: Compliance Certification
- 103 40CFR 52.21(j), Subpart A: Compliance Certification
- 104 40CFR 52.21(j), Subpart A: Compliance Certification
- 105 40CFR 52.21(j), Subpart A: Compliance Certification
- 107 40CFR 52.21(j), Subpart A: Compliance Certification



**EU=U-00001,EP=00004,Proc=P11**

- 1-21 6NYCRR 231-2.7(b): Compliance Certification
- 1-22 6NYCRR 231-2.7(b): Compliance Certification
- 1-23 6NYCRR 231-2.7(b): Compliance Certification
- 108 6NYCRR 231-2.7(b): Compliance Certification
- 109 6NYCRR 231-2.7(b): Compliance Certification
- 110 6NYCRR 231-2.7(b): Compliance Certification
- 1-24 40CFR 52.21(j), Subpart A: Compliance Certification
- 1-25 40CFR 52.21(j), Subpart A: Compliance Certification
- 1-26 40CFR 52.21(j), Subpart A: Compliance Certification
- 1-27 40CFR 52.21(j), Subpart A: Compliance Certification
- 113 40CFR 52.21(j), Subpart A: Compliance Certification
- 114 40CFR 52.21(j), Subpart A: Compliance Certification
- 115 40CFR 52.21(j), Subpart A: Compliance Certification
- 116 40CFR 52.21(j), Subpart A: Compliance Certification

**EU=U-00002**

- 118 40CFR 60.48c(a), NSPS Subpart Dc: Compliance Certification

**EU=U-00002,EP=00005,Proc=P22,ES=00DFP**

- 119 6NYCRR 231-2.7(b): Compliance Certification
- 120 6NYCRR 231-2.7(b): Compliance Certification
- 121 6NYCRR 231-2.7(b): Compliance Certification
- 122 40CFR 52.21(j), Subpart A: Compliance Certification
- 123 40CFR 52.21(j), Subpart A: Compliance Certification

**STATE ONLY ENFORCEABLE CONDITIONS**

**Facility Level**

- 1-28 ECL 19-0301: Contaminant List
- 124 6NYCRR 201-1.4: Unavoidable noncompliance and violations
- 128 6NYCRR 211.2: Air pollution prohibited

**Emission Unit Level**

**EU=U-00001,EP=00004**

- 129 6NYCRR 201-5.3(b): Compliance Demonstration
- 130 6NYCRR 201-5.3(b): Compliance Demonstration

**EU=U-00001,EP=00004,Proc=P10**

- 131 6NYCRR 201-5.3(b): Compliance Demonstration



**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 - 6NYCRR Part 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 - 6NYCRR Part 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



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Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to 6NYCRR 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 Part 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 Part 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 Part 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 Part 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 - 6NYCRR Part 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



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order to maintain compliance with the conditions of this permit.

**Item H: Property Rights - 6 NYCRR Part 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 Part 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 Part 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

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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 Part 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



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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: Acceptable Ambient Air Quality**  
**Effective between the dates of 12/27/2005 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 200.6**

**Item 2-1.1:**

Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit



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any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

**Condition 2-2: Fees**

**Effective between the dates of 12/27/2005 and 05/10/2007**

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

**Item 2-2.1:**

The owner and/or operator of a stationary source shall pay fees to the Department consistent with the fee schedule authorized by ECL 72-0302.

**Condition 1-1: Recordkeeping and reporting of compliance monitoring**

**Effective between the dates of 01/21/2004 and 05/10/2007**

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

**Item 1-1.1:**

The following information must be included in any required compliance monitoring records and reports:

- (i) The date, place, and time of sampling or measurements;
- (ii) The date(s) analyses were performed;
- (iii) The company or entity that performed the analyses;
- (iv) The analytical techniques or methods used including quality assurance and quality control procedures if required;
- (v) The results of such analyses including quality assurance data where required; and
- (vi) The operating conditions as existing at the time of sampling or measurement.

Any deviation from permit requirements must be clearly identified in all records and reports. Reports must be certified by a responsible official, consistent with Section 201-6.3 of this Part 201.

**Condition 1-2: Monitoring, Related Recordkeeping, and Reporting Requirements.**

**Effective between the dates of 01/21/2004 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 201-6.5(c)(2)**

**Item 1-2.1:**

Compliance monitoring and recordkeeping shall be conducted according to the terms and conditions contained in this permit and shall follow all quality assurance requirements found in applicable



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regulations. Records of all monitoring data and support information must be retained for a period of at least 5 years from the date of the monitoring, sampling, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

**Condition 24: Compliance Certification**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 201-6.5(c)(3)(ii)**

**Item 24.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 24.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To meet the requirements of this facility permit with respect to reporting, the permittee must:

Submit reports of any required monitoring at a minimum frequency of every 6 months, based on a calendar year reporting schedule. These reports shall be submitted to the Department within 30 days after the end of a reporting period. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by the responsible official for this facility.

Notify the Department and report permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken. Where the underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, that definition or time frame shall govern. Where the underlying applicable requirement fails to address the time frame for reporting deviations, reports of deviations shall be submitted to the permitting authority based on the following schedule:

(1) For emissions of a hazardous air pollutant or a toxic air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.



(2) For emissions of any regulated air pollutant, excluding those listed in paragraph (1) of this section, that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.

(3) For all other deviations from permit requirements, the report shall be contained in the 6 month monitoring report required above.

(4) This permit may contain a more stringent reporting requirement than required by paragraphs (1), (2) or (3) above. If more stringent reporting requirements have been placed in this permit or exist in applicable requirements that apply to this facility, the more stringent reporting requirement shall apply.

If any of the above conditions are met, the source must notify the permitting authority by telephone or facsimile based on the timetable listed in paragraphs (1) through (4) of this section. A written notice, certified by a responsible official consistent with 6 NYCRR Part 201-6.3(d)(12), must be submitted within 10 working days of the occurrence. All deviations reported under paragraph (1) through (4) of this section must also be identified in the 6 month monitoring report required above.

If the permittee seeks to have a violation excused as provided in 201-1.4, the permittee shall report such violations as required under 201-1.4(b). However, in no case may reports of any deviation be on a less frequent basis than those described in paragraphs (1) through (4) above. 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.

In the case of any condition contained in this permit with a reporting requirement of "Upon request by regulatory agency" the permittee shall include in the semiannual report, a statement for each such condition that the monitoring or recordkeeping was performed as required or requested and a listing of all instances of

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deviations from these requirements.

In the case of any emission testing performed during the previous six month reporting period, either due to a request by the Department, EPA, or a regulatory requirement, the permittee shall include in the semiannual report a summary of the testing results and shall indicate whether or not the Department or EPA has approved the results.

All semiannual reports shall be submitted to the Administrator (or his or her representative) as well as two copies to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Compliance Monitoring and Enforcement (BCME) in the DEC central office). Mailing addresses for the above referenced persons are contained in the monitoring condition for 6 NYCRR Part 201-6.5(e), contained elsewhere in this permit.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 10/30/2002.  
Subsequent reports are due every 6 calendar month(s).

**Condition 25: Compliance Certification**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

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

**Item 25.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 25.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Requirements for compliance certifications with terms and conditions contained in this facility permit include the following:

- i. Compliance certifications shall contain:
  - the identification of each term or condition of the permit that is the basis of the certification;
  - the compliance status;
  - whether compliance was continuous or intermittent;

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- the method(s) used for determining the compliance status of the facility, currently and over the reporting period consistent with the monitoring and related recordkeeping and reporting requirements of this permit;
- such other facts as the Department may require to determine the compliance status of the facility as specified in any special permit terms or conditions;
- and
- such additional requirements as may be specified elsewhere in this permit related to compliance certification.

ii. The responsible official must include in the annual certification report all terms and conditions contained in this permit, including emission limitations, standards, or work practices. That is, the provisions labeled herein as "Compliance Certification" are not the only provisions of this permit for which an annual certification is required.

iii. Compliance certifications shall be submitted annually. Certification reports are due 30 days after the anniversary date of four consecutive calendar quarters. The first report is due 30 days after the calendar quarter that occurs just prior to the permit anniversary date, unless another quarter has been acceptable by the Department.

iv. All compliance certifications shall be submitted to the Administrator (or his or her representative) as well as two copies to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Compliance Monitoring and Enforcement (BCME) in the DEC central office). Please send annual compliance certifications to Chief of the Stationary Source Compliance Section, the Region 2 EPA representative for the Administrator, at the following address:

USEPA Region 2  
Air Compliance Branch  
290 Broadway  
New York, NY 10007-1866

The address for the RAPCE is as follows:

Hunters Point Plaza



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47-40 21st Street  
Long Island City, NY 11101-5407

The address for the BCME is as follows:

NYSDEC  
Bureau of Compliance Monitoring  
and Enforcement  
625 Broadway  
Albany, NY 12233-3258

Monitoring Frequency: ANNUALLY  
Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 4/30/2003.  
Subsequent reports are due on the same day each year

**Condition 31: Compliance Certification**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 202-2.1**

**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:  
Emission statements shall be submitted on or before April  
15th each year for emissions of the previous calendar  
year.

Monitoring Frequency: ANNUALLY  
Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due by April 15th for previous calendar year

**Condition 32: Recordkeeping requirements**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 202-2.5**

**Item 32.1:**  
(a) The following records shall be maintained for at least five years:

- (1) a copy of each emission statement submitted to the department; and



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(2) records indicating how the information submitted in the emission statement was determined, including any calculations, data, measurements, and estimates used.

(b) These records shall be made available at the facility to the representatives of the department upon request during normal business hours.

**Condition 2-3: Open Fires Prohibited at Industrial and Commercial Sites  
Effective between the dates of 12/27/2005 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 215**

**Item 2-3.1:**

No person shall burn, cause, suffer, allow or permit the burning in an open fire of garbage, refuse, rubbish for salvage, or rubbish generated by industrial or commercial activities.

**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 2-4: Maintenance of Equipment  
Effective between the dates of 12/27/2005 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 200.7**

**Item 2-4.1:**

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

**Condition 2-5: Recycling and Salvage  
Effective between the dates of 12/27/2005 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 201-1.7**

**Item 2-5.1:**

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



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**Condition 2-6: Prohibition of Reintroduction of Collected Contaminants to the air**

**Effective between the dates of 12/27/2005 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 201-1.8**

**Item 2-6.1:**

No person shall remove, handle or cause to be handled, collected air contaminants from an air cleaning device for recycling, salvage or disposal in a manner that would reintroduce them to the outdoor atmosphere.

**Condition 2-7: Exempt Sources - Proof of Eligibility**

**Effective between the dates of 12/27/2005 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 201-3.2(a)**

**Item 2-7.1:**

The owner and/or operator of an emission source or unit that is eligible to be exempt may be required to certify that it operates within the specific criteria described in this Subpart. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 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.

**Condition 2-8: Trivial Sources - Proof of Eligibility**

**Effective between the dates of 12/27/2005 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 201-3.3(a)**

**Item 2-8.1:**

The owner and/or operator of an emission source or unit that is listed as being trivial in this Part may be required to certify that it operates within the specific criteria described in this Subpart. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 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.

**Condition 2-9: Standard Requirement - Provide Information**

**Effective between the dates of 12/27/2005 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 201-6.5(a)(4)**

**Item 2-9.1:**

The owner and/or operator shall furnish to the department, within a reasonable time, any information that the department may request in writing to determine whether cause exists for modifying, revoking and



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reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the department copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the administrator along with a claim of confidentiality, if the administrator initiated the request for information or otherwise has need of it.

**Condition 2-10: General Condition - Right to Inspect**

**Effective between the dates of 12/27/2005 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 201-6.5(a)(8)**

**Item 2-10.1:**

The department or an authorized representative shall be allowed upon presentation of credentials and other documents as may be required by law to:

(i) enter upon the permittee's premises where a facility subject to the permitting requirements of this Subpart is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;

(ii) have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;

(iii) inspect at reasonable times any emission sources, equipment (including monitoring and air pollution control equipment), practices, and operations regulated or required under the permit; and

(iv) sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

**Condition 2-11: Standard Requirements - Progress Reports**

**Effective between the dates of 12/27/2005 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 201-6.5(d)(5)**

**Item 2-11.1:**

Progress reports consistent with an applicable schedule of compliance are to be submitted at least semiannually, or at a more frequent period if specified in the applicable requirement or by the department. Such progress reports shall contain the following:

(i) dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and

(ii) an explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

**Condition 2-12: Off Permit Changes**

**Effective between the dates of 12/27/2005 and 05/10/2007**

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

**Item 2-12.1:**

No permit revision will be required for operating changes that contravene an express permit term, provided that such changes would not violate applicable requirements as defined under this Part or contravene federally enforceable monitoring (including test methods), recordkeeping, reporting, or compliance certification permit terms and conditions. Such changes may be made without requiring a permit revision, if the changes are not modifications under any provision of title I of the act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions) provided that the facility provides the administrator and the department with written notification as required below in advance of the proposed changes within a minimum of seven days. The facility owner or operator, and the department shall attach each such notice to their copy of the relevant permit.

(i) For each such change, the written notification required above shall include a brief description of the change within the permitted facility, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.

(ii) The permit shield described in section 6 NYCRR 201-6.6 shall not apply to any change made pursuant to this paragraph.

**Condition 2-13: Required Emissions Tests**

**Effective between the dates of 12/27/2005 and 05/10/2007**

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

**Item 2-13.1:**

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. Such person shall bear the cost of measurement and preparing the report of measured emissions. Failure of such person to submit a report acceptable to the commissioner within the time stated shall be sufficient reason for the commissioner to suspend or deny a certificate to operate.

**Condition 2-14: Visible Emissions Limited**

**Effective between the dates of 12/27/2005 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 211.3**

**Item 2-14.1:**

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 2-15: Accidental release provisions.**

**Effective between the dates of 12/27/2005 and 05/10/2007**

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**Applicable Federal Requirement: 40CFR 68**

**Replaces Condition(s) 1-3**

**Item 2-15.1:**

If a chemical is listed in Tables 1,2,3 or 4 of 40 CFR §68.130 is present in a process in quantities greater than the threshold quantity listed in Tables 1,2,3 or 4, the following requirements will apply:

- a) The owner or operator shall comply with the provisions of 40 CFR Part 68 and;
- b) The owner or operator shall submit at the time of permit issuance (if not previously submitted) one of the following, if such quantities are present:
  - 1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR §68.10(a) or,
  - 2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan. Information should be submitted to:

Risk Management Plan Reporting Center  
C/O CSC  
8400 Corporate Dr  
Carrollton, Md. 20785

**Condition 2-16: Recycling and Emissions Reduction**

**Effective between the dates of 12/27/2005 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 82, Subpart F**

**Item 2-16.1:**

The permittee shall comply with all applicable provisions of 40 CFR Part 82.

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

**Condition 2-17: Steady state and fuel switching emission limit**

**applicability.**

**Effective between the dates of 12/27/2005 and 05/10/2007**

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

**Item 2-17.1:** The emission limits for NO<sub>x</sub>, CO, and ammonia are monitored by continuous emissions



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monitors (CEMs), and apply only during periods of steady state operation of the turbines. The owner or operator is required to develop emission limits for these pollutants during periods of start-up, shutdown, and fuel switching for both natural gas and distillate oil firing modes of operation.

**Condition 23: Emission Unit Definition**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

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

**Item 23.1(From Mod 1):**

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

Emission Unit: U-00001

Emission Unit Description:

Emission Unit U00001 represents four (4) identical GE 7421FA combustion turbines, each rated at 2191 MM Btu/hr (including the duct burner when firing natural gas at -5 deg Fahrenheit) and 2047 MM Btu/hr when firing distillate fuel oil at -5 deg Fahrenheit. Emission Unit U00001 also represents one Cleaver Brooks (or equivalent) 99 MM Btu/hr auxiliary boiler that fires natural gas for startups. The boiler exhausts parallel to the turbine stack, but shares the turbine stack to the atmosphere. Natural gas is the primary fuel and distillate fuel oil is the back-up fuel.

Building(s): TGB

**Item 23.2(From Mod 1):**

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

Emission Unit: U-00002

Emission Unit Description:

Emission Unit U00002 represents a diesel fire suppression water pump. The diesel fire suppression water pump will be used for emergencies, less than 500 hours/year.

Building(s): TGB

**Condition 2-18: Compliance Certification**  
**Effective between the dates of 12/27/2005 and 05/10/2007**

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

**Item 2-18.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 2-18.2:**

Compliance Certification shall include the following monitoring:



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Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator shall, within one year following the commencement of commercial operation, submit start-up, shutdown, and fuel switching data with an application for permit modification to establish enforceable combustion turbine start-up, shutdown, and fuel switching emission rates for NO<sub>x</sub>, CO, and NH<sub>3</sub>, and confirm that such established rates would not result in a violation of applicable NAAQS.

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

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 27: Non Applicable requirements**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

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

**Item 27.1:**

This section contains a summary of those requirements that have been specifically identified as being not applicable to this facility and/or emission units, emission points, processes and/or emission sources within this facility. The summary also includes a justification for classifying any such requirements as non-applicable.

**Condition 29: Prohibitions**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 202-1.5**

**Item 29.1:**

No person shall conceal an emission by the use of air or other gaseous diluents to achieve compliance

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with an emission standard which is based on the concentration of a contaminant in the gases emitted through a stack.

**Condition 30: Emission Statements**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 202-2**

**Item 30.1:**

The provisions of 6NYCRR Subpart 202-2 apply to this facility.

**Condition 33: Permit requirements (facilities commencing operation on or after 01/00)**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 204-1.6**

**Item 33.1:** The NOx authorized account representative of each NOx budget unit shall submit to the Department a complete NOx Budget permit application (as defined under Section 204-3.3) by May 1, 2002 or 12 months before the date on which the NOx Budget unit commences operation.

**Condition 34: Submittal of Episode Action Plans**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 207**

**Item 34.1:**

An episode action plan must be submitted for approval by the Department in accordance with the requirements of 6NYCRR Part 207. The plan shall contain detailed steps which will be taken by the facility to reduce air contaminant emissions during each stage of an air pollution episode. Once approved, the facility shall take whatever actions are prescribed by the episode action plan when an air pollution episode is in effect.

**Condition 37: Notification/Reporting requirements**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.4**

**Item 37.1:**

At least sixty (60) days prior to the scheduled commence operation date of the proposed source project or proposed major facility, the permittee shall submit any changes to the list of offset sources included in this permit. For each such change, the applicant must submit another "Use of Emission Reduction Credits Form" signed by the applicant and an authorized representative of the new offset source.

**Item 37.2:**

The facility shall submit to the DEC Regional office a letter of confirmation that each future emission reduction, if any, used to provide emission offsets for this facility has physically occurred. This letter



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should be submitted, not less than 10 working days, prior to the facility's scheduled start-up date.

**Item 37.3:**

This permit shall be subject to revocation if construction is not commenced within 18 months from the date of issuance of such permit or if construction is discontinued for a period of 18 months or more (excluding any period of time that the permit is subject to challenge in State or Federal court), or if construction is not completed within a reasonable time acceptable to the Department.

**Condition 38: Emission offset requirements**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.4**

**Item 38.1:**

To satisfy the emission offset requirements of Part 231, the facility has obtained 425 tpy of NOx, 145 tpy of VOC and 145 tpy of CO Emission Reduction Credits (ERCs) from the following sources:

<b>Facility Name</b>	<b>DEC ID</b>	<b>ERCs (tpy)</b>
Con Ed. - Astoria	2-6301-00006	425 tpy of NOx
PG & E originally transferred from General Motors Corp.	3-5534-00104	145 tpy of VOC
Con Ed. - Astoria	2-6301-00006	145 tpy of CO

**Condition 39: Compliance Certification**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 39.1:**

The Compliance Certification activity will be performed for the Facility.

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

**Item 39.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:  
ASTORIA ENERGY LLC WILL BURN NATURAL GAS AS THE PRIMARY FUEL IN THE TURBINES WITH UP TO 720 HOURS OF DISTILLATE FUEL OIL AS A BACKUP. ASTORIA ENERGY LLC WILL BURN

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NATURAL GAS AS THE ONLY FUEL IN THE BOILER. THE SULFUR CONTENT OF THE DISTILLATE FUEL OIL WILL BE NO MORE THAN 0.033% BY WEIGHT. THE DISTILLATE FUEL OIL IS TO BE TESTED EACH TIME IT IS TRANSFERRED TO THE STORAGE TANK.

Work Practice Type: PARAMETER OF PROCESS MATERIAL  
Process Material: FUEL  
Parameter Monitored: SULFUR CONTENT  
Upper Permit Limit: 0.033 percent by weight  
Reference Test Method: ASTM METHOD D4292  
Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL CHANGE  
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 7/30/2002.  
Subsequent reports are due every 3 calendar month(s).

**Condition 40: EPA Region 2 address.  
Effective between the dates of 05/10/2002 and 05/10/2007**

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

**Item 40.1:**

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

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

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

NYSDEC  
Bureau of Enforcement and Compliance Assurance  
625 Broadway  
Albany, NY 12233-3258

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**Condition 41: Date of construction notification - If a COM is not used.  
Effective between the dates of 05/10/2002 and 05/10/2007**

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

**Item 41.1:**

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

- 1) a notification of the date construction or reconstruction commenced, post marked no later than 30 days after such date;
- 3) a notification of the actual date of initial start up, post marked within 15 days after such date;
- 4) a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless the change is specifically exempted under this part. The notice shall be post marked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capability of the facility before and after the change, and the expected completion date of the change. The 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 42: Recordkeeping requirements.  
Effective between the dates of 05/10/2002 and 05/10/2007**

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

**Item 42.1:**

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 43: Excess emissions report.  
Effective between the dates of 05/10/2002 and 05/10/2007**

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

**Item 43.1:**

Affected owners or operators shall submit an excess emissions report and/or a summary report form (as



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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 calendar quarter (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.

**Condition 44: Excess emissions report.**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

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

**Item 44.1:**

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 45: Facility files for subject sources.**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

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

**Item 45.1:**

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 46: Performance testing timeline.**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

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

**Item 46.1:**

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

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**Condition 47: Performance test methods.**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

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

**Item 47.1:**

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 48: Required performance test information.**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

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

**Item 48.1:**

Performance tests shall be conducted under such conditions specified by the Administrator, based upon representative performance data supplied by the owner or operator of the facility.

**Condition 49: Prior notice.**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

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

**Item 49.1:**

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

**Condition 50: Performance testing facilities.**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

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

**Item 50.1:**

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

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

**Condition 51: Number of required tests.**  
**Effective between the dates of 05/10/2002 and 05/10/2007**



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

**Item 51.1:**

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

**Condition 52: Availability of information.**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 60.9, NSPS Subpart A**

**Item 52.1:**

The availability to the public of information provided to, or otherwise obtained by, the Administrator under this part shall be governed by 40 CFR Part 2.

**Condition 53: Opacity standard compliance testing.**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 60.11, NSPS Subpart A**

**Item 53.1:**

The following conditions shall be used to determine compliance with the opacity standards:

1) observations shall be conducted in accordance with Reference Method 9, in Appendix A of 40 CFR Part 60 (or an equivalent method approved by the Administrator including continuous opacity monitors);

2) the opacity standards apply at all times except during periods of start up, shutdown, and malfunction; and

3) all other applicable conditions cited in section 60.11 of this part.

**Condition 54: Circumvention.**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 60.12, NSPS Subpart A**

**Item 54.1:**

No owner or operator subject to the provisions of this part shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.

**Condition 55: Monitoring requirements.**

**Effective between the dates of 05/10/2002 and 05/10/2007**

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

**Item 55.1:**

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

**Condition 56: Modifications.**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 60.14, NSPS Subpart A**

**Item 56.1:**

Within 180 days of the completion of any physical or operational change (as defined in section 60.14), compliance with the applicable standards must be achieved.

**Condition 57: Reconstruction**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 60.15, NSPS Subpart A**

**Item 57.1:**

The following shall be submitted to the Administrator prior to reconstruction (as defined in section 60.15):

- 1) a notice of intent to reconstruct 60 days prior to the action;
- 2) name and address of the owner or operator;
- 3) the location of the existing facility;
- 4) a brief description of the existing facility and the components to be replaced;
- 5) a description of the existing air pollution control equipment and the proposed air pollution control equipment;
- 6) an estimate of the fixed capital cost of the replacements and of constructing a comparable entirely new facility;
- 7) the estimated life of the facility after the replacements; and
- 8) a discussion of any economic or technical limitations the facility may have in complying with the applicable standards of performance after the proposed replacements.

**Condition 58: Facility Subject to Title IV Acid Rain Regulations and Permitting**

**Effective between the dates of 05/10/2002 and 05/10/2007**

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**Applicable Federal Requirement: 40CFR 72**

**Item 58.1:** This facility is subject to the Title IV Acid Rain Regulations found in 40 CFR Parts 72, 73, 75, 76, 77 and 78. The Acid Rain Permit is an attachment to this permit.

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

**Condition 60: Emission Point Definition By Emission Unit**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

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

**Item 60.1(From Mod 1):**

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

Emission Unit: U-00001

Emission Point: 00004

Height (ft.): 269

Diameter (in.): 444

NYTMN (km.): 4514.853 NYTME (km.): 593.06 Building: TGB

**Item 60.2(From Mod 0):**

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

Emission Unit: U-00002

Emission Point: 00005

Height (ft.): 50

Diameter (in.): 6

NYTMN (km.): 4514.767 NYTME (km.): 593.018 Building: TGB

**Condition 61: Process Definition By Emission Unit**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

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

**Item 61.1(From Mod 1):**

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

Emission Unit: U-00001

Process: P01

Source Classification Code: 2-01-002-01

Process Description:

Process P01 in Emission Unit U-00001 represents natural gas firing in the four (4) identical combustion turbines with duct firing. The maximum firing rate for a single turbine plus duct burner is 2191 MM Btu/hr (HHV). The



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maximum firing rate for a single duct burner is 388 MM Btu/hr. Due to limitations in the steam cycle portion of the plant, the maximum duct burner firing can only occur when a turbine is operating at its maximum natural gas firing rate (1968 MM Btu/hr). Therefore, duct burner firing will only occur with 100 % load.

All four combustion turbines are dual-fueled and all four turbines may operate at the same time. Natural gas is the primary fuel and distillate fuel oil is the back-up fuel. For this process, dry low NO<sub>x</sub> burners (DLN) and selective catalytic reduction (SCR) are used to control NO<sub>x</sub> emissions. Emissions of VOC and CO are controlled through the use of an oxidation catalyst. Each turbine is expected to operate up to 8,760 hours/year on natural gas and up to 720 hours/year on distillate oil. The maximum natural gas throughput for Process P01 may not exceed 15,040 million cubic feet per year.

Emission Source/Control: 00DB1 - Combustion  
Design Capacity: 388 million Btu per hour

Emission Source/Control: 00DB2 - Combustion  
Design Capacity: 388 million Btu per hour

Emission Source/Control: 00DB3 - Combustion  
Design Capacity: 388 million Btu per hour

Emission Source/Control: 00DB4 - Combustion  
Design Capacity: 388 million Btu per hour

Emission Source/Control: 0T001 - Combustion  
Design Capacity: 2,047.1 million Btu per hour

Emission Source/Control: 0T002 - Combustion  
Design Capacity: 2,047.1 million Btu per hour

Emission Source/Control: 0T003 - Combustion  
Design Capacity: 2,047.1 million Btu per hour

Emission Source/Control: 0T004 - Combustion  
Design Capacity: 2,047.1 million Btu per hour

Emission Source/Control: 00CO1 - Control  
Control Type: CATALYTIC AFTERBURNER

Emission Source/Control: 00CO2 - Control

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Control Type: CATALYTIC AFTERBURNER

Emission Source/Control: 00CO3 - Control  
Control Type: CATALYTIC AFTERBURNER

Emission Source/Control: 00CO4 - Control  
Control Type: CATALYTIC AFTERBURNER

Emission Source/Control: 0DLN1 - Control  
Control Type: LOW NOx BURNER

Emission Source/Control: 0DLN2 - Control  
Control Type: LOW NOx BURNER

Emission Source/Control: 0DLN3 - Control  
Control Type: LOW NOx BURNER

Emission Source/Control: 0DLN4 - Control  
Control Type: LOW NOx BURNER

Emission Source/Control: 0SCR1 - Control  
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: 0SCR2 - Control  
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: 0SCR3 - Control  
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: 0SCR4 - Control  
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

**Item 61.2(From Mod 1):**

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

Emission Unit: U-00001

Process: P05

Source Classification Code: 1-02-006-04

Process Description:

Process P05 in Emission Unit U-00001 represents natural gas firing in the 99 MM Btu/hr auxiliary boiler. This boiler fires natural gas only and is expected to operate up to 900 hours/year on natural gas. For the boiler, it is estimated that 89.1 MM cubic feet/year of natural gas will be used.

Emission Source/Control: BOIL1 - Combustion  
Design Capacity: 99 million Btu per hour

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**Item 61.3(From Mod 1):**

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

Emission Unit: U-00001

Process: P10

Source Classification Code: 2-01-001-01

**Process Description:**

Process P10 in Emission Unit U-00001 represents distillate fuel oil (limit of 0.033 % sulfur by weight) firing in the four (4) identical combustion turbines.

All four (4) combustion turbines are dual-fueled and all four turbines may operate at the same time. Natural gas is the primary fuel and distillate fuel oil is the back-up fuel. For this process, selective catalytic reduction (SCR) and water injection (WI) are used to control NOx emissions. Emissions of VOC and CO are controlled through the use of an oxidation catalyst. Each combustion turbine is expected to operate up to 8,760 hours/year on natural gas and up to 720 hours/year on distillate oil. The maximum distillate fuel oil throughput for Process P10 may not exceed 42.1 million gallons per year.

Emission Source/Control: 0T001 - Combustion  
Design Capacity: 2,047.1 million Btu per hour

Emission Source/Control: 0T002 - Combustion  
Design Capacity: 2,047.1 million Btu per hour

Emission Source/Control: 0T003 - Combustion  
Design Capacity: 2,047.1 million Btu per hour

Emission Source/Control: 0T004 - Combustion  
Design Capacity: 2,047.1 million Btu per hour

Emission Source/Control: 00CO1 - Control  
Control Type: CATALYTIC AFTERBURNER

Emission Source/Control: 00CO2 - Control  
Control Type: CATALYTIC AFTERBURNER

Emission Source/Control: 00CO3 - Control  
Control Type: CATALYTIC AFTERBURNER

Emission Source/Control: 00CO4 - Control  
Control Type: CATALYTIC AFTERBURNER

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Emission Source/Control: 0SCR1 - Control  
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: 0SCR2 - Control  
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: 0SCR3 - Control  
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: 0SCR4 - Control  
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: 0WI01 - Control  
Control Type: WATER INJECTION

Emission Source/Control: 0WI02 - Control  
Control Type: WATER INJECTION

Emission Source/Control: 0WI03 - Control  
Control Type: WATER INJECTION

Emission Source/Control: 0WI04 - Control  
Control Type: WATER INJECTION

**Item 61.4(From Mod 1):**

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

Emission Unit: U-00001

Process: P11

Source Classification Code: 2-01-001-01

Process Description:

Process P11 in Emission Unit U-00001 represents natural gas firing in the four (4) identical combustion turbines without duct firing. The maximum natural gas throughput for Process P11 may not exceed 68,940 million cubic feet per year.

All four combustion turbines are dual-fueled and all four turbines may operate at the same time. Natural gas is the primary fuel and distillate fuel oil is the back-up fuel. For this process, dry low NOx burners (DLN) and selective catalytic reduction (SCR) are used to control NOx emissions. Emissions of VOC and CO are controlled through the use of an oxidation catalyst. Each turbine is expected to operate up to 8,760 hours/year on natural gas



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and up to 720 hours/year on distillate oil. The maximum natural gas throughput for Processes P01 & P11 combined may not exceed 70,570 million cubic feet per year.

Emission Source/Control: 0T001 - Combustion  
Design Capacity: 2,047.1 million Btu per hour

Emission Source/Control: 0T002 - Combustion  
Design Capacity: 2,047.1 million Btu per hour

Emission Source/Control: 0T003 - Combustion  
Design Capacity: 2,047.1 million Btu per hour

Emission Source/Control: 0T004 - Combustion  
Design Capacity: 2,047.1 million Btu per hour

Emission Source/Control: 00CO1 - Control  
Control Type: CATALYTIC AFTERBURNER

Emission Source/Control: 00CO2 - Control  
Control Type: CATALYTIC AFTERBURNER

Emission Source/Control: 00CO3 - Control  
Control Type: CATALYTIC AFTERBURNER

Emission Source/Control: 00CO4 - Control  
Control Type: CATALYTIC AFTERBURNER

Emission Source/Control: 0DLN1 - Control  
Control Type: LOW NOx BURNER

Emission Source/Control: 0DLN2 - Control  
Control Type: LOW NOx BURNER

Emission Source/Control: 0DLN3 - Control  
Control Type: LOW NOx BURNER

Emission Source/Control: 0DLN4 - Control  
Control Type: LOW NOx BURNER

Emission Source/Control: 0SCR1 - Control  
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: 0SCR2 - Control  
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: 0SCR3 - Control



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Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: 0SCR4 - Control

Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

**Item 61.5(From Mod 1):**

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

Emission Unit: U-00002

Process: P22

Source Classification Code: 2-80-002-18

Process Description:

Process P22 in Emission Unit U-00002 represents the 300 brake horsepower diesel fire suppression water pump firing diesel fuel oil. The diesel fire suppression water pump is expected to operate less than 500 hours/year on diesel fuel oil.

Emission Source/Control: 00DFP - Combustion

Design Capacity: 300 horsepower (mechanical)

**Condition 62: Compliance Certification**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.5**

**Item 62.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 62.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

LAER emission limit. Records for demonstration of compliance with the CO emission limit shall be maintained on site for five years. These records shall include i) mass emissions totaled over each 24-hour daily period (the total of hourly averages 12:00 midnight to the following midnight), and ii) the total mass emissions over a 365 day period beginning with the start-up of the facility. Any exceedances of the allowable annual CO emission limitation must be reported in writing to the DEC Regional office



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within 10 working days of the exceedance.

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 144 tons per year

Monitoring Frequency: CONTINUOUS

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: QUARTERLY (ANNIVERSARY)

Initial Report Due: 09/08/2002 for the period 05/10/2002 through 08/09/2002

**Condition 63: Compliance Certification**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.5**

**Item 63.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Regulated Contaminant(s):

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

**Item 63.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

LAER emission limit. Records for demonstration of compliance with the NOx emission limit shall be maintained on site for five years. These records shall include i) mass emissions totaled over each 24-hour daily period (the total of hourly averages 12:00 midnight to the following midnight), and ii) the total mass emissions over a 365 day period beginning with the start-up of the facility. Any exceedances of the allowable annual NOx emission limitation must be reported in writing to the DEC Regional office within 10 working days of the exceedance.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 324 tons per year

Monitoring Frequency: CONTINUOUS

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: QUARTERLY (ANNIVERSARY)

Initial Report Due: 09/08/2002 for the period 05/10/2002 through 08/09/2002

**Condition 64: Compliance Certification**

**Effective between the dates of 05/10/2002 and 05/10/2007**



**Applicable Federal Requirement: 6NYCRR 231-2.5**

**Item 64.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

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

**Item 64.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC  
OPERATIONS

Monitoring Description:

LAER emission limit. Records for demonstration of compliance with the VOC emission limit shall be maintained on site for five years. Any exceedances of the allowable annual VOC emission limitation must be reported in writing to the DEC Regional office within 10 working days of the exceedance.

Work Practice Type: PROCESS MATERIAL THRUPUT  
Process Material: VOC's  
Upper Permit Limit: 108 tons per year  
Monitoring Frequency: ANNUALLY  
Averaging Method: ARITHMETIC MEAN  
Reporting Requirements: ANNUALLY (ANNIVERSARY)  
Initial Report Due: 06/08/2003 for the period 05/10/2002 through 05/09/2003

**Condition 65: Compliance Certification**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.6**

**Item 65.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

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

**Item 65.2:**

Compliance Certification shall include the following monitoring:



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Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Records for demonstration of compliance with the CO emission limit shall be maintained on site for five years.

These records shall include i) mass emissions totaled over each 24-hour daily period (the total of hourly averages 12:00 midnight to the following midnight), and ii) the total mass emissions over a 365 day period beginning with the start-up of the facility. Any exceedance of the allowable annual CO emission limitation must be reported in writing to the DEC Regional office within 10 working days of the exceedance.

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 144 tons per year

Monitoring Frequency: CONTINUOUS

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: QUARTERLY (ANNIVERSARY)

Initial Report Due: 09/08/2002 for the period 05/10/2002 through 08/09/2002

**Condition 66: Compliance Certification**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.6**

**Item 66.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Regulated Contaminant(s):

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

**Item 66.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Records for demonstration of compliance with the NO<sub>x</sub> emission limit shall be maintained on site for five years.

These records shall include i) mass emissions totaled over each 24-hour daily period (the total of hourly averages 12:00 midnight to the following midnight), and ii) the total mass emissions over a 365 day period beginning with the start-up of the facility. Any exceedance of the allowable annual NO<sub>x</sub> emission limitation



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must be reported in writing to the DEC Regional office within 10 working days of the exceedance.

Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 324 tons per year  
Monitoring Frequency: CONTINUOUS  
Averaging Method: ANNUAL MAXIMUM ROLLED DAILY  
Reporting Requirements: QUARTERLY (ANNIVERSARY)  
Initial Report Due: 09/08/2002 for the period 05/10/2002 through 08/09/2002

**Condition 67: Compliance Certification**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.6**

**Item 67.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

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

**Item 67.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Records for demonstration of compliance with the VOC emission limit shall be maintained on site for five years. Any exceedance of the allowable annual VOC emission limitation must be reported in writing to the DEC Regional office within 10 working days of the exceedance.

Work Practice Type: PROCESS MATERIAL THRUPUT  
Process Material: VOC's  
Upper Permit Limit: 108 tons per year  
Monitoring Frequency: ANNUALLY  
Averaging Method: ARITHMETIC MEAN  
Reporting Requirements: ANNUALLY (ANNIVERSARY)  
Initial Report Due: 06/08/2003 for the period 05/10/2002 through 05/09/2003

**Condition 68: Compliance Certification**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.9**

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**Facility DEC ID: 2630100072**



**Item 68.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

**Item 68.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Use of Emission Reduction Credit:

Astoria Energy LLC is requesting a VOC ERC transfer from PG & E Energy Trading- Power L.P. (PGET). Cantor Fitzgerald Brokerage L. P. is authorized to act on behalf of both PG & E Energy Trading-Power L. P. and SCS Energy/Astoria Energy LLC (Astoria Energy) in the processing of the VOC ERC transfer. PG & E Energy Trading (PGET) is transferring 145 tons per year (tpy) of VOC ERCs currently held by PGET to Astoria Energy. These VOC ERCs were originally created at General Motors Corporations's North Tarrytown Plant (Sleepy Hollow), New York facility (DEC ID # 3-5534-00104), and were subsequently transferred, but unused, to PGET. PGET, in turn, subsequently transferred the subject ERCs to Astoria Energy.

In addition to the 145 tpy of VOC ERCs that are being committed to Astoria Energy from PG & E (which were originally transferred from General Motors Corp (DEC ID # 3-5534-00104)), 425 tpy of NOx ERCs have been committed to Astoria Energy from Con Ed. - Astoria, DEC ID # 2-6301-00006 and 145 tpy of CO ERCs have been committed to Astoria Energy from Con Ed. - Astoria, DEC ID # 2-6301-00006.

Monitoring Frequency: SINGLE OCCURRENCE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 69: Compliance Certification**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

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**Item 69.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

**Item 69.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Permittee shall submit a quarterly written CEM report to NYSDEC for every calendar year quarter. All quarterly reports shall be post marked by the 30th day following the end of each calendar quarter and shall include:

1. CEMS down time (40 CFR 60.7(b)) and excess emissions (40 CFR 60.7(c)) in a summary report format, as found in 40 CFR 60.7(d), or equivalent.
2. The results of the quarterly monitoring performance audit, reported in the format of 40 CFR 60 Appendix F (or equivalent).
3. Excess emissions shall be identified as any one-hour block period during which the average emissions of CO, or any three-hour block period during which the average emission on NO<sub>x</sub>, as measured by the CEM system, exceeds the corresponding mass or concentration emission limits set forth in this permit.
4. For the purposes of this permit, excess emissions indicated by the CEM system for the appropriate block periods other than start-ups and shutdowns, malfunctions (as stated in 6NYCRR Subpart 201-1.4) emergency, fuel switching, equipment cleaning and CEM calibrations may be considered violations of the applicable emission limits.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2002.

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

**Condition 70: Compliance Certification**



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**Permit ID: 2-6301-00072/00014**

**Facility DEC ID: 2630100072**

**Effective between the dates of 05/10/2002 and 05/10/2007**

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

**Item 70.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

**Item 70.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner and operator of each affected facility shall 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 72: Alternate compliance methods for sulfur dioxide.  
Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 60.44c(g), NSPS Subpart Dc**

**Item 72.1:**

This Condition applies to Emission Unit: U-00001  
Process: P10

**Item 72.2:**



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**Oil fired facilities demonstrating compliance with the sulfur dioxide standard through sampling and analysis must test every shipment of oil after the initial approval or follow an approved custom schedule.**

**The facility will use commercially available distillate fuel oil (very low sulfur, 0.033 percent by weight). The permit limits for the sulfur content of the oil are much less than the current legal limits for sale of this product in the New York City area. It is therefore proposed that the oil monitoring plan be amended to require only one sulfur test per barge shipment delivered to the power plant. The oil supplier will provide the required distillate oil analysis (per barge shipment).**

**Condition 73: Compliance Certification**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

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

**Item 73.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004

**Item 73.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

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

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING  
DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2002.

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

**Condition 74: Compliance Certification**  
**Effective between the dates of 05/10/2002 and 05/10/2007**



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**Facility DEC ID: 2630100072**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 74.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004

**Item 74.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In accordance with the requirements set forth in 40 CFR 60.334 and 60.335, Astoria Energy will be required to analyze its natural gas and distillate fuel for nitrogen and sulfur content daily. It is believed that a more practical and cost effective monitoring schedule can be used to assure that the standards of the permits are met. Astoria Energy is proposing a custom schedule for testing the natural gas sulfur content and limiting the distillate oil sulfur content to 0.033 percent by weight. Therefore, once the alternative monitoring plan is approved by USEPA, it will be attached to the permit.

Astoria Energy will submit natural gas and fuel oil nitrogen and sulfur contents on a quarterly basis per the custom scheduled approved by USEPA. Astoria Energy requests the following proposal of an alternate fuel monitoring plan:

**GAS MONITORING:**

It is anticipated that natural gas will be delivered to the facility via the New York Facility System. Sulfur analysis from the New York Facility System are available and will be provided to EPA in accordance with the schedule below:

1. For the first six months of facility operation, fuel sulfur monitoring will be conducted twice each month. If this monitoring shows consistent compliance with 40 CFR 60.333, then the monitoring will be conducted once per quarter for six quarters.
2. After the requirements in Part 1 have been successfully completed and the fuel sulfur content shows consistent compliance with 40 CFR 60.333, then the sulfur

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monitoring will be conducted once per year. This analysis will be conducted once per year. This analysis will be conducted during the first quarter of each year.

3. Should the sulfur analysis in Parts 1 and 2 indicate noncompliance with 40 CFR 60.333, NYSDEC and EPA will be notified.

4. In the event that natural gas is provided from a system other than the New York Facility System, EPA will be notified.

The facility incorporates a continuous emissions monitoring system (CEMS) and meets very strict nitrogen oxides (NOx) limits. As such, it is proposed that the facility not be required to test for fuel nitrogen content due to continuous stack compliance already in place.

The New York Facility System will provide the natural gas analysis referred to above. In the event that the New York Facility System is unable to provide analysis, the facility will pull a sample and have it analyzed.

**OIL MONITORING:**

The facility will use commercially available distillate fuel oil (very low sulfur, 0.033 percent by weight). The permit limits for the sulfur content of the oil are much less than the current legal limits for sale of this product in the New York City area. It is therefore proposed that the oil monitoring plan be amended to require only one sulfur test per barge shipment into the oil terminal for the oil delivered to the facility. The oil supplier will provide the required distillate oil analysis (per barge shipment). Please also see Conditions 84 & 85.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.



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The initial report is due 7/30/2002.  
Subsequent reports are due every 3 calendar month(s).

**Condition 1-4: Compliance Certification**  
**Effective between the dates of 01/21/2004 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 1-4.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004

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

**Item 1-4.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC  
OPERATIONS

Monitoring Description:

Astoria Energy will demonstrate compliance with the annual particulate matter emission rate using stack testing results and fuel consumption data. The twelve-month rolling total will be recorded monthly. Astoria Energy will burn natural gas as the primary fuel with distillate fuel oil as a backup fuel.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NUMBER 2 OIL

Parameter Monitored: PARTICULATES

Upper Permit Limit: 582,000 pounds per year

Reference Test Method: PART 60, APP A, M 5

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL TOTAL ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2004.

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

**Condition 1-5: Compliance Certification**  
**Effective between the dates of 01/21/2004 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 1-5.1:**



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The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004

Regulated Contaminant(s):

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

**Item 1-5.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Astoria Energy will demonstrate compliance with the annual PM-10 emission rate using stack testing results and fuel consumption data. The twelve-month rolling total will be recorded monthly. Astoria Energy will burn natural gas as the primary fuel with distillate fuel oil as a backup fuel.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NUMBER 2 OIL

Parameter Monitored: PM-10

Upper Permit Limit: 582,000 pounds per year

Reference Test Method: App A, M 201A & 202

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL TOTAL ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2004.

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

**Condition 1-6: Compliance Certification**

**Effective between the dates of 01/21/2004 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 60.47a(c), NSPS Subpart Da**

**Item 1-6.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004

Regulated Contaminant(s):

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

**Item 1-6.2:**

Compliance Certification shall include the following monitoring:



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Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Astoria Energy shall install, calibrate, maintain, and operate a continuous monitoring system, and record the output of the system, for measuring nitrogen oxides emissions discharged to the atmosphere.

Astoria Energy will use a continuous emissions monitoring system (CEMS) to measure NOx concentration in pounds per million Btus at Emission Point 00004 and Emission Unit U-00001 (from the combustion turbines and the auxiliary boiler).

Manufacturer Name/Model Number: CEMS

Upper Permit Limit: 0.20 pounds per million Btus

Reference Test Method: App A, Method 7

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2004.

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

**Condition 1-7: Compliance Certification**

**Effective between the dates of 01/21/2004 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.7(b)**

**Item 1-7.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001    Emission Point: 00004  
Process: P01

Regulated Contaminant(s):

CAS No: 000630-08-0    CARBON MONOXIDE

**Item 1-7.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

7.77 LBS/HR OF CO EMISSION LIMIT  
DURING NATURAL GAS FIRING IN THE GAS  
TURBINE WITH DUCT FIRING BASED ON HHV OF  
FUEL. THIS EMISSION LIMIT APPLIES AT ALL



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TIMES, INCLUDING START-UP/SHUTDOWN, EQUIPMENT MAINTENANCE, MALFUNCTIONS AND UPSETS AS PER THE REQUIREMENTS OF 6NYCRR 201-1.4 . ASTORIA ENERGY WILL USE CEMS TO MONITOR CO EMISSION IN THE STACK. LAER IS REQUIRED.

ASTORIA ENERGY SHALL, WITHIN ONE YEAR FOLLOWING THE COMMENCEMENT OF COMMERCIAL OPERATION, SUBMIT START-UP/SHUTDOWN DATA AND A PERMIT MODIFICATION TO ESTABLISH ENFORCEABLE COMBUSTION TURBINE START-UP AND SHUTDOWN EMISSION RATES FOR NO<sub>x</sub>, CO, AND NH<sub>3</sub>, AND CONFIRM THAT SUCH ESTABLISHED RATES WOULD NOT RESULT IN A VIOLATION OF APPLICABLE NAAQS.

Manufacturer Name/Model Number: CEM  
Parameter Monitored: CARBON MONOXIDE  
Upper Permit Limit: 7.77 pounds per hour  
Reference Test Method: PT 60 APP B & F  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 4/30/2004.  
Subsequent reports are due every 3 calendar month(s).

**Condition 1-8: Compliance Certification**  
**Effective between the dates of 01/21/2004 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.7(b)**

**Item 1-8.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004  
Process: P01

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

**Item 1-8.2:**

Compliance Certification shall include the following monitoring:

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

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17.0 LBS/HR OF NOX EMISSION LIMIT DURING NATURAL GAS FIRING IN THE GAS TURBINE WITH DUCT FIRING BASED UPON HIGH HEATING VALUE (HHV) OF FUEL. THIS EMISSION LIMIT APPLIES AT ALL TIMES, INCLUDING START-UP/SHUTDOWN, EQUIPMENT MAINTENANCE, MALFUNCTIONS AND UPSETS AS PER THE REQUIREMENTS OF 6NYCRR 201-1.4 .

ASTORIA ENERGY WILL USE CEMS TO MONITOR NOX EMISSION AT THE STACK. LAER IS REQUIRED.

ASTORIA ENERGY SHALL, WITHIN ONE YEAR FOLLOWING THE COMMENCEMENT OF COMMERCIAL OPERATION, SUBMIT START-UP/SHUTDOWN DATA AND A PERMIT MODIFICATION TO ESTABLISH ENFORCEABLE COMBUSTION TURBINE START-UP AND SHUTDOWN EMISSION RATES FOR NO<sub>x</sub>, CO, AND NH<sub>3</sub>, AND CONFIRM THAT SUCH ESTABLISHED RATES WOULD NOT RESULT IN A VIOLATION OF APPLICABLE NAAQS.

Manufacturer Name/Model Number: CEM  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 17.0 pounds per hour  
Reference Test Method: Part 60, App B & F  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 3-CYCLE BLOCK AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 4/30/2004.  
Subsequent reports are due every 3 calendar month(s).

**Condition 1-9: Compliance Certification**  
**Effective between the dates of 01/21/2004 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.7(b)**

**Item 1-9.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004  
Process: P01

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

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**Item 1-9.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

5.92 LBS/HR OF VOC EMISSION LIMIT DURING NATURAL GAS FIRING IN THE GAS TURBINE WITH DUCT FIRING BASED ON HHV OF FUEL. THIS EMISSION LIMIT APPLIES AT ALL TIMES, INCLUDING START-UP/SHUTDOWN, EQUIPMENT MAINTENANCE, MALFUNCTIONS AND UPSETS AS PER THE REQUIREMENTS OF 6NYCRR 201-1.4 . ASTORIA ENERGY WILL SHOW COMPLIANCE WITH VOC EMISSION BY STACK TESTING. THE REFERENCE TEST METHOD FOR VOC IS 40 CFR PART 60, APPENDIX A, METHOD 18 (FOR METHANE) AND METHOD 25A (FOR TOTAL). THE AVERAGING METHOD IS FOR THE REFERENCE TEST METHOD IS 1-HOUR AVERAGE. LAER IS REQUIRED.

Parameter Monitored: VOC

Upper Permit Limit: 5.92 pounds per hour

Reference Test Method: APP A, M 18 & 25A

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 75: Compliance Certification**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.7(b)**

**Item 75.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004

Process: P01

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

**Item 75.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:



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**Facility DEC ID: 2630100072**

0.003 LB/MMBTU VOC EMISSION LIMIT DURING NATURAL GAS FIRING IN THE GAS TURBINE WITH DUCT FIRING BASED ON HHV OF FUEL. THIS EMISSION LIMIT APPLIES AT ALL TIMES, INCLUDING START-UP/SHUTDOWN, EQUIPMENT MAINTENANCE, MALFUNCTIONS AND UPSETS AS PER THE REQUIREMENTS OF 6NYCRR 201-1.4 . ASTORIA ENERGY WILL SHOW COMPLIANCE WITH VOC EMISSION BY STACK TESTING. THE REFERENCE TEST METHOD FOR VOC IS 40 CFR PART 60, APPENDIX A, METHOD 18 (FOR METHANE) AND METHOD 25A (FOR TOTAL). THE AVERAGING METHOD IS FOR THE REFERENCE TEST METHOD IS 1-HOUR AVERAGE. LAER IS REQUIRED.

Parameter Monitored: VOC

Upper Permit Limit: 0.003 pounds per million Btus

Reference Test Method: APP A, M 18 & 25A

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 76: Compliance Certification**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.7(b)**

**Item 76.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004

Process: P01

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 76.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

1.5 PPM OF CO EMISSION LIMIT DURING NATURAL GAS FIRING IN THE GAS TURBINE WITH DUCT FIRING BASED ON HHV OF FUEL. THIS EMISSION LIMIT APPLIES AT ALL TIMES, INCLUDING START-UP/SHUTDOWN, EQUIPMENT



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**Facility DEC ID: 2630100072**

MAINTENANCE, MALFUNCTIONS AND UPSETS AS PER THE REQUIREMENTS OF 6NYCRR 201-1.4 .

ASTORIA ENERGY WILL USE CEMS TO MONITOR CO EMISSION IN THE STACK. LAER IS REQUIRED.

Manufacturer Name/Model Number: CEM  
Parameter Monitored: CARBON MONOXIDE  
Upper Permit Limit: 1.5 parts per million by volume  
(dry, corrected to 15% O2)  
Reference Test Method: PT 60 APP B & F  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 7/30/2002.  
Subsequent reports are due every 3 calendar month(s).

**Condition 77: Compliance Certification**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.7(b)**

**Item 77.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004  
Process: P01

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

**Item 77.2:**

Compliance Certification shall include the following monitoring:

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

2 PPM OF NOX EMISSION LIMIT DURING NATURAL GAS FIRING IN THE GAS TURBINE WITH DUCT FIRING BASED UPON HIGH HEATING VALUE (HHV) OF FUEL. THIS EMISSION LIMIT APPLIES AT ALL TIMES, INCLUDING START-UP/SHUTDOWN, EQUIPMENT MAINTENANCE, MALFUNCTIONS AND UPSETS AS PER THE REQUIREMENTS OF 6NYCRR 201-1.4 .  
ASTORIA ENERGY WILL USE CEMS TO MONITOR NOX EMISSION AT THE STACK. LAER IS

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**REQUIRED.**

Manufacturer Name/Model Number: CEM  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 2 parts per million by volume (dry,  
corrected to 15% O<sub>2</sub>)  
Reference Test Method: Part 60, App B & F  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 3-HOUR BLOCK AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 7/30/2002.  
Subsequent reports are due every 3 calendar month(s).

**Condition 1-10: Compliance Certification**

**Effective between the dates of 01/21/2004 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 1-10.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004  
Process: P01

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

**Item 1-10.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING  
Monitoring Description:  
0.0098 LB/MMBTU PM-10 EMISSION LIMIT  
DURING NATURAL GAS FIRING IN THE GAS  
TURBINE WITH DUCT FIRING BASED UPON HHV  
OF FUEL. ASTORIA ENERGY WILL BURN  
NATURAL GAS AS PRIMARY FUEL WITH  
DISTILLATE FUEL OIL AS A BACKUP FUEL.  
THIS EMISSION LIMIT APPLIES AT ALL TIMES,  
INCLUDING START-UP/SHUTDOWN, EQUIPMENT  
MAINTENANCE, MALFUNCTIONS AND UPSETS AS  
PER THE REQUIREMENTS OF 6NYCRR 201-1.4 .  
ASTORIA ENERGY WILL SHOW COMPLIANCE WITH  
PM-10 EMISSION BY STACK TESTING.

Parameter Monitored: PM-10



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Upper Permit Limit: 0.0098 pounds per million Btus  
Reference Test Method: App A, M 201A & 202  
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 1-11: Compliance Certification**

**Effective between the dates of 01/21/2004 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 1-11.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004  
Process: P01

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

**Item 1-11.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

18.0 LB/HR OF PM-10 EMISSION LIMIT  
DURING NATURAL GAS FIRING IN THE GAS  
TURBINE WITH DUCT FIRING BASED UPON HHV  
OF FUEL. ASTORIA ENERGY WILL BURN  
NATURAL GAS AS PRIMARY FUEL WITH  
DISTILLATE FUEL OIL AS A BACKUP FUEL.  
THIS EMISSION LIMIT APPLIES AT ALL TIMES,  
INCLUDING START-UP/SHUTDOWN, EQUIPMENT  
MAINTENANCE, MALFUNCTIONS AND UPSETS AS  
PER THE REQUIREMENTS OF 6NYCRR 201-1.4 .  
ASTORIA ENERGY WILL SHOW COMPLIANCE WITH  
PM-10 EMISSION BY STACK TESTING.

Parameter Monitored: PM-10

Upper Permit Limit: 18.0 pounds per hour  
Reference Test Method: App A, M 201A & 202  
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 1-12: Compliance Certification**

**Effective between the dates of 01/21/2004 and 05/10/2007**

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**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 1-12.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001    Emission Point: 00004  
Process: P01

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

**Item 1-12.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

15.7 LB/HR OF AMMONIA EMISSION LIMIT DURING NATURAL GAS FIRING IN THE TURBINE WITH DUCT FIRING BASED ON HHV OF FUEL. ASTORIA ENERGY WILL CONTROL AMMONIA EMISSION THROUGH PROPER OPERATION AND CONTROL OF THE SELECTIVE CATALYTIC REDUCTION (SCR). CONTROL OF THE AMMONIA FEED RATE WILL BE BASED ON THE NOX AND FUEL FLOW. THIS EMISSION LIMIT APPLIES AT ALL TIMES, INCLUDING START-UP/SHUTDOWN, EQUIPMENT MAINTENANCE, MALFUNCTIONS AND UPSETS AS PER THE REQUIREMENTS OF 6NYCRR 201-1.4 . ASTORIA ENERGY WILL USE CEMS TO MONITOR NH3 EMISSION IN THE STACK. LAER IS REQUIRED.

ASTORIA ENERGY SHALL, WITHIN ONE YEAR FOLLOWING THE COMMENCEMENT OF COMMERCIAL OPERATION, SUBMIT START-UP/SHUTDOWN DATA AND A PERMIT MODIFICATION TO ESTABLISH ENFORCEABLE COMBUSTION TURBINE START-UP AND SHUTDOWN EMISSION RATES FOR NO<sub>x</sub>, CO, AND NH<sub>3</sub>, AND CONFIRM THAT SUCH ESTABLISHED RATES WOULD NOT RESULT IN A VIOLATION OF APPLICABLE NAAQS.

Manufacturer Name/Model Number: CEM  
Parameter Monitored: AMMONIA  
Upper Permit Limit: 15.7 pounds per hour



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**Permit ID: 2-6301-00072/00014**

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Reference Test Method: PT 60 APP B & F  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 4/30/2004.  
Subsequent reports are due every 3 calendar month(s).

**Condition 1-13: Compliance Certification**

**Effective between the dates of 01/21/2004 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 1-13.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004  
Process: P01

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

**Item 1-13.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

0.0098 LB/MMBTU PARTICULATES EMISSION  
LIMIT DURING NATURAL GAS FIRING IN THE  
GAS TURBINE WITH DUCT FIRING BASED ON  
HHV OF FUEL. ASTORIA ENERGY WILL BURN  
NATURAL GAS AS THE PRIMARY FUEL WITH  
DISTILLATE FUEL AS A BACKUP FUEL. THIS  
EMISSION LIMIT APPLIES AT ALL TIMES,  
INCLUDING START-UP/SHUTDOWN, EQUIPMENT  
MAINTENANCE, MALFUNCTIONS AND UPSETS AS  
PER THE REQUIREMENTS OF 6NYCRR 201-1.4 .  
ASTORIA ENERGY WILL SHOW COMPLIANCE WITH  
PARTICULATES EMISSION BY STACK TESTING.

Parameter Monitored: PARTICULATES  
Upper Permit Limit: 0.0098 pounds per million Btus  
Reference Test Method: PART 60, APP A, M 5  
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE



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**Condition 1-14: Compliance Certification**

**Effective between the dates of 01/21/2004 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 1-14.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004  
Process: P01

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

**Item 1-14.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

18.0 LBS/HR OF PARTICULATES EMISSION  
LIMIT DURING NATURAL GAS FIRING IN THE  
GAS TURBINE WITH DUCT FIRING BASED ON  
HHV OF FUEL. ASTORIA ENERGY WILL BURN  
NATURAL GAS AS THE PRIMARY FUEL WITH  
DISTILLATE FUEL AS A BACKUP FUEL. THIS  
EMISSION LIMIT APPLIES AT ALL TIMES,  
INCLUDING START-UP/SHUTDOWN, EQUIPMENT  
MAINTENANCE, MALFUNCTIONS AND UPSETS AS  
PER THE REQUIREMENTS OF 6NYCRR 201-1.4 .  
ASTORIA ENERGY WILL SHOW COMPLIANCE WITH  
PARTICULATES EMISSION BY STACK TESTING.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 18.0 pounds per hour

Reference Test Method: PART 60, APP A, M 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 1-15: Compliance Certification**

**Effective between the dates of 01/21/2004 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 1-15.1:**

The Compliance Certification activity will be performed for:



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Emission Unit: U-00001    Emission Point: 00004  
Process: P01

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

**Item 1-15.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

2.37 LBS/HR EMISSION LIMIT OF SULFURIC ACID FOR THE GAS TURBINE WITH DUCT BURNER FIRING NATURAL GAS. THIS EMISSION LIMIT APPLIES AT ALL TIMES, INCLUDING START-UP/SHUTDOWN, EQUIPMENT MAINTENANCE, MALFUNCTIONS AND UPSETS AS PER THE REQUIREMENTS OF 6NYCRR 201-1.4 . ASTORIA ENERGY WILL SHOW COMPLIANCE WITH SULFURIC ACID EMISSION BY STACK TESTING.

Parameter Monitored: SULFURIC ACID

Upper Permit Limit: 2.37 pounds per hour

Reference Test Method: Part 60, App A, M 8

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 78: Compliance Certification**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 78.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001    Emission Point: 00004  
Process: P01

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

**Item 78.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

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**Monitoring Description:**

ASTORIA ENERGY WILL CONTROL AMMONIA EMISSION THROUGH PROPER OPERATION AND CONTROL OF THE SELECTIVE CATALYTIC REDUCTION (SCR). CONTROL OF THE AMMONIA FEED RATE WILL BE BASED ON THE NOX AND FUEL FLOW. THIS EMISSION LIMIT APPLIES AT ALL TIMES, INCLUDING START-UP/SHUTDOWN, EQUIPMENT MAINTENANCE, MALFUNCTIONS AND UPSETS AS PER THE REQUIREMENTS OF 6NYCRR 201-1.4 .

Manufacturer Name/Model Number: CEM

Parameter Monitored: AMMONIA

Upper Permit Limit: 5.0 parts per million by volume  
(dry, corrected to 15% O2)

Reference Test Method: PT 60 APP B & F

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2002.

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

**Condition 80: Compliance Certification**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 80.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004  
Process: P01

Regulated Contaminant(s):

CAS No: 007664-93-9 SULFURIC ACID

**Item 80.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

0.001 LB/MM BTU EMISSION LIMIT OF SULFURIC ACID FOR THE GAS TURBINE WITH DUCT BURNER FIRING NATURAL GAS. THIS EMISSION LIMIT APPLIES AT ALL TIMES,

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INCLUDING START-UP/SHUTDOWN, EQUIPMENT MAINTENANCE, MALFUNCTIONS AND UPSETS AS PER THE REQUIREMENTS OF 6NYCRR 201-1.4 .  
ASTORIA ENERGY WILL SHOW COMPLIANCE WITH SULFURIC ACID EMISSION BY STACK TESTING.

Parameter Monitored: SULFURIC ACID

Upper Permit Limit: 0.001 pounds per million Btus

Reference Test Method: Part 60, App A, M 8

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 82: Custom fuel monitoring for nitrogen and sulfur content.  
Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 60.334(b), NSPS Subpart GG**

**Item 82.1:**

This Condition applies to Emission Unit: U-00001 Emission Point: 00004  
Process: P01

**Item 82.2:**

The owner or operator of any stationary gas turbine subject to the provisions of this subpart shall monitor sulfur content and nitrogen content of the fuel being fired in the turbine. Owners, operators, or fuel vendors may develop custom schedules for determination of the values based on the design and operation of the affected facility and the characteristics of the fuel supply. These custom schedules shall be substantiated with data and must be approved by the Administrator before they can be used to comply with the requirements of this Section.

**Condition 83: Compliance Certification  
Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 60.334(b), NSPS Subpart GG**

**Item 83.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004  
Process: P01

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

**Item 83.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

ASTORIA ENERGY IS PROPOSING A CUSTOM  
SCHEDULE FOR TESTING THE NATURAL GAS  
SULFUR CONTENT. THE EPA APPROVED  
ALTERNATIVE MONITORING PLAN SHALL BE  
ATTACHED TO THE PERMIT.

Parameter Monitored: SULFUR

Upper Permit Limit: 20 grains

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING  
DESCRIPTION

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

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2002.

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

**Condition 1-16: Compliance Certification**

**Effective between the dates of 01/21/2004 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 227-2.4(c)**

**Item 1-16.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001    Emission Point: 00004  
Process: P05                Emission Source: BOIL1

Regulated Contaminant(s):

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

**Item 1-16.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Astoria Energy is required to initially stack test the  
mid-size boiler for NOx emission limit compliance.

To comply with this Subpart, owners or operators of  
mid-size boilers must meet the requirements of either  
paragraph (1) or (2) of this subdivision by May 31, 1995.

The emission limit for NOx RACT for mid-size boiler



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(between 50 and 100 MM Btu/hr) operating on natural gas only is 0.10 pounds of NOx per million Btu. However, Astoria Energy is required to comply with LAER, for which the NOx emission limit is 0.011 lbs/MM Btu rather than the 0.10 lbs/MM Btu limit under the NOx RACT plan for mid-size boilers.

Compliance with the 0.011 lbs/MM Btu emission limit shall be determined with a one hour average in accordance with section 227-2.6(a)(4) of this Subpart unless the owner/operator opts to utilize CEMS under the provisions of section 227-2.6(a)(2) of this Subpart. If CEMS are utilized, the requirements of section 227-2.6(b) of this Subpart apply, including the use of a 24 hour averaging period.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.011 pounds per million Btus

Reference Test Method: METHOD 7, 7E, 19

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 84: Compliance Certification**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.7(b)**

**Item 84.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004

Process: P05 Emission Source: BOIL1

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

**Item 84.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

0.002 LB/MM BTU VOC EMISSION LIMIT  
DURING NATURAL GAS FIRING IN THE  
AUXILIARY BOILER BASED ON HHV OF FUEL.  
ASTORIA ENERGY WILL BURN ONLY NATURAL GAS  
IN THE BOILER. ASTORIA ENERGY WILL SHOW



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COMPLIANCE WITH VOC EMISSION BY STACK TESTING. THE REFERENCE TEST METHOD FOR VOC IS 40 CFR PART 60, APPENDIX A, METHOD 18 (FOR METHANE) AND METHOD 25A (FOR TOTAL). THE AVERAGING METHOD FOR THE REFERENCE TEST METHOD IS 1-HOUR AVERAGE. LAER IS REQUIRED.

Parameter Monitored: VOC

Upper Permit Limit: 0.002 pounds per million Btus

Reference Test Method: APP A, M 18 & 25A

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 85: Compliance Certification**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.7(b)**

**Item 85.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004

Process: P05 Emission Source: BOIL1

Regulated Contaminant(s):

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

**Item 85.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

1.09 LB/HR OF NOX EMISSION LIMIT DURING NATURAL GAS FIRING IN THE AUXILIARY BOILER BASED UPON HIGH HEATING VALUE (HHV) OF FUEL. ASTORIA ENERGY WILL BURN ONLY NATURAL GAS IN THE BOILER. ASTORIA ENERGY WILL SHOW COMPLIANCE WITH NOX EMISSION BY STACK TESTING. LAER IS REQUIRED.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 1.09 pounds per hour

Reference Test Method: PART 60 APP A, M 7E



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Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 86: Compliance Certification**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.7(b)**

**Item 86.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001    Emission Point: 00004  
Process: P05                      Emission Source: BOIL1

Regulated Contaminant(s):

CAS No: 000630-08-0    CARBON MONOXIDE

**Item 86.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

0.020 LB/MM BTU CO EMISSION LIMIT  
DURING NATURAL GAS FIRING IN THE  
AUXILIARY BOILER BASED ON HHV OF FUEL.  
ASTORIA ENERGY WILL BURN ONLY NATURAL GAS  
IN THE BOILER. ASTORIA ENERGY WILL SHOW  
COMPLIANCE WITH CO EMISSION BY STACK  
TESTING. LAER IS REQUIRED.

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 0.020 pounds per million Btus

Reference Test Method: PT 60 APP A, M 10

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 87: Compliance Certification**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.7(b)**

**Item 87.1:**

The Compliance Certification activity will be performed for:



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Emission Unit: U-00001    Emission Point: 00004  
Process: P05                      Emission Source: BOIL1

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

**Item 87.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING  
Monitoring Description:  
0.011 LB/MM BTU OF NOX EMISSION LIMIT  
DURING NATURAL GAS FIRING IN THE  
AUXILIARY BOILER BASED UPON HIGH HEATING  
VALUE (HHV) OF FUEL. ASTORIA ENERGY WILL  
BURN ONLY NATURAL GAS IN THE BOILER.  
ASTORIA ENERGY WILL SHOW COMPLIANCE WITH  
NOX EMISSION BY STACK TESTING. LAER IS  
REQUIRED.

Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 0.011 pounds per million Btus  
Reference Test Method: PART 60 APP A, M 7E  
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT  
Averaging Method: 3-HOUR BLOCK AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 88: Compliance Certification**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.7(b)**

**Item 88.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001    Emission Point: 00004  
Process: P05                      Emission Source: BOIL1

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

**Item 88.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING  
Monitoring Description:  
0.20 LB/HR VOC EMISSION LIMIT DURING



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NATURAL GAS FIRING IN THE AUXILIARY BOILER BASED ON HHV OF FUEL. ASTORIA ENERGY WILL BURN ONLY NATURAL GAS IN THE BOILER. ASTORIA ENERGY WILL SHOW COMPLIANCE WITH VOC EMISSION BY STACK TESTING. THE REFERENCE TEST METHOD FOR VOC IS 40 CFR PART 60, APPENDIX A, METHOD 18 (FOR METHANE) AND METHOD 25A (FOR TOTAL). THE AVERAGING METHOD FOR THE REFERENCE TEST METHOD IS 1-HOUR AVERAGE. LAER IS REQUIRED.

Parameter Monitored: VOC

Upper Permit Limit: 0.20 pounds per hour

Reference Test Method: APP A, M 18 & 25A

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 89: Compliance Certification**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.7(b)**

**Item 89.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001      Emission Point: 00004  
Process: P05                      Emission Source: BOIL1

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

**Item 89.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

1.98 LB/HR CO EMISSION LIMIT DURING NATURAL GAS FIRING IN THE AUXILIARY BOILER BASED ON HHV OF FUEL. ASTORIA ENERGY WILL BURN ONLY NATURAL GAS IN THE BOILER. ASTORIA ENERGY WILL SHOW COMPLIANCE WITH CO EMISSION BY STACK TESTING. LAER IS REQUIRED.



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**Permit ID: 2-6301-00072/00014**

**Facility DEC ID: 2630100072**

Parameter Monitored: CARBON MONOXIDE  
Upper Permit Limit: 1.98 pounds per hour  
Reference Test Method: PT 60 APP A, M 10  
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 90: Compliance Certification**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 90.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001    Emission Point: 00004  
Process: P05                Emission Source: BOIL1

**Item 90.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:  
THE AUXILIARY BOILER WILL NOT OPERATE  
BELOW 50 % LOAD, EXCEPT DURING STARTUP  
AND SHUTDOWN.

Monitoring Frequency: CONTINUOUS  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 7/30/2002.  
Subsequent reports are due every 3 calendar month(s).

**Condition 91: Compliance Certification**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 91.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001    Emission Point: 00004  
Process: P05                Emission Source: BOIL1

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

**New York State Department of Environmental Conservation**

**Permit ID: 2-6301-00072/00014**

**Facility DEC ID: 2630100072**



**Item 91.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

0.005 LB/MM BTU OF PARTICULATES  
EMISSION LIMIT DURING NATURAL GAS FIRING  
IN THE AUXILIARY BOILER BASED UPON HHV OF  
FUEL. ASTORIA ENERGY WILL BURN ONLY  
NATURAL GAS IN THE BOILER. ASTORIA  
ENERGY WILL SHOW COMPLIANCE WITH  
PARTICULATES EMISSION BY STACK TESTING.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.005 pounds per million Btus

Reference Test Method: PART 60, APP A, M 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 92: Compliance Certification**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 92.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004

Process: P05 Emission Source: BOIL1

Regulated Contaminant(s):

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

**Item 92.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

0.005 LB/MM BTU OF PM-10 EMISSION  
LIMIT DURING NATURAL GAS FIRING IN  
AUXILIARY BOILER BASED UPON HHV OF FUEL.  
ASTORIA ENERGY WILL BURN ONLY NATURAL GAS  
IN THE BOILER. ASTORIA ENERGY WILL SHOW  
COMPLIANCE WITH PM-10 EMISSION BY STACK  
TESTING.



**New York State Department of Environmental Conservation**

**Permit ID: 2-6301-00072/00014**

**Facility DEC ID: 2630100072**

Parameter Monitored: PM-10  
Upper Permit Limit: 0.005 pounds per million Btus  
Reference Test Method: APP A, M 201A & 202  
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 93: Compliance Certification**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 93.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001    Emission Point: 00004  
Process: P05                Emission Source: BOIL1

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

**Item 93.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING  
Monitoring Description:  
0.495 LB/HR OF PM-10 EMISSION LIMIT  
DURING NATURAL GAS FIRING IN AUXILIARY  
BOILER BASED UPON HHV OF FUEL. ASTORIA  
ENERGY WILL BURN ONLY NATURAL GAS IN THE  
BOILER. ASTORIA ENERGY WILL SHOW  
COMPLIANCE WITH PM-10 EMISSION BY STACK  
TESTING.

Parameter Monitored: PM-10  
Upper Permit Limit: 0.495 pounds per hour  
Reference Test Method: APP A, M 201A & 202  
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 94: Compliance Certification**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**



**New York State Department of Environmental Conservation**

**Permit ID: 2-6301-00072/00014**

**Facility DEC ID: 2630100072**

**Item 94.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001    Emission Point: 00004  
Process: P05                      Emission Source: BOIL1

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

**Item 94.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING  
Monitoring Description:  
0.495 LB/HR PARTICULATES EMISSION LIMIT  
DURING NATURAL GAS FIRING IN THE  
AUXILIARY BOILER BASED UPON HHV OF FUEL.  
ASTORIA ENERGY WILL BURN ONLY NATURAL  
GAS IN THE BOILER. ASTORIA ENERGY WILL  
SHOW COMPLIANCE WITH PARTICULATES  
EMISSION BY STACK TESTING.

Parameter Monitored: PARTICULATES  
Upper Permit Limit: 0.495 pounds per hour  
Reference Test Method: PART 60, APP A, M 5  
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 1-17: Compliance Certification**

**Effective between the dates of 01/21/2004 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.7(b)**

**Item 1-17.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001    Emission Point: 00004  
Process: P10

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

**Item 1-17.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

**New York State Department of Environmental Conservation**

**Permit ID: 2-6301-00072/00014**

**Facility DEC ID: 2630100072**



**Monitoring Description:**

48.5 LBS/HR OF NOX EMISSION LIMIT DURING DISTILLATE OIL FIRING IN THE TURBINE BASED UPON HIGH HEATING VALUE (HHV) OF FUEL. THIS EMISSION LIMIT APPLIES AT ALL TIMES, INCLUDING START-UP/SHUTDOWN, EQUIPMENT MAINTENANCE, MALFUNCTIONS AND UPSETS AS PER THE REQUIREMENTS OF 6NYCRR 201-1.4. ASTORIA ENERGY WILL USE CEMS TO MONITOR NOX EMISSION AT THE STACK. LAER IS REQUIRED.

ASTORIA ENERGY SHALL, WITHIN ONE YEAR FOLLOWING THE COMMENCEMENT OF COMMERCIAL OPERATION, SUBMIT START-UP/SHUTDOWN DATA AND A PERMIT MODIFICATION TO ESTABLISH ENFORCEABLE COMBUSTION TURBINE START-UP AND SHUTDOWN EMISSION RATES FOR NO<sub>x</sub>, CO, AND NH<sub>3</sub>, AND CONFIRM THAT SUCH ESTABLISHED RATES WOULD NOT RESULT IN A VIOLATION OF APPLICABLE NAAQS.

Manufacturer Name/Model Number: CEM  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 48.5 pounds per hour  
Reference Test Method: Part 60, APP B & F  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 3-HOUR BLOCK AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 4/30/2004.  
Subsequent reports are due every 3 calendar month(s).

**Condition 1-18: Compliance Certification**

**Effective between the dates of 01/21/2004 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.7(b)**

**Item 1-18.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004  
Process: P10

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

**New York State Department of Environmental Conservation**

**Permit ID: 2-6301-00072/00014**

**Facility DEC ID: 2630100072**



**Item 1-18.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

14.1 LBS/HR VOC EMISSION LIMIT DURING DISTILLATE OIL FIRING IN THE GAS TURBINE BASED ON HHV OF FUEL. THIS EMISSION LIMIT APPLIES AT ALL TIMES, INCLUDING START-UP/SHUTDOWN, EQUIPMENT MAINTENANCE, MALFUNCTIONS AND UPSETS AS PER THE REQUIREMENTS OF 6NYCRR 201-1.4 . ASTORIA ENERGY WILL SHOW COMPLIANCE WITH VOC EMISSION BY STACK TESTING. THE REFERENCE TEST METHOD FOR VOC IS 40 CFR PART 60, APPENDIX A, METHOD 18 (FOR METHANE) AND METHOD 25A (FOR TOTAL). THE AVERAGING METHOD IS FOR THE REFERENCE TEST METHOD IS 1-HOUR AVERAGE. LAER IS REQUIRED.

Parameter Monitored: VOC

Upper Permit Limit: 14.1 pounds per hour

Reference Test Method: APP A, M 18 & 25A

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 1-19: Compliance Certification**

**Effective between the dates of 01/21/2004 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.7(b)**

**Item 1-19.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004

Process: P10

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 1-19.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:



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**Permit ID: 2-6301-00072/00014**

**Facility DEC ID: 2630100072**

19.7 LBS/HR OF CO EMISSION LIMIT DURING DISTILLATE OIL FIRING IN GAS TURBINE BASED ON HHV OF FUEL. THIS EMISSION LIMIT APPLIES AT ALL TIMES, INCLUDING START-UP/SHUTDOWN, EQUIPMENT MAINTENANCE, MALFUNCTIONS AND UPSETS AS PER THE REQUIREMENTS OF 6NYCRR 201-1.4 . ASTORIA ENERGY WILL USE CEMS TO MONITOR CO EMISSION IN THE STACK. LAER IS REQUIRED.

ASTORIA ENERGY SHALL, WITHIN ONE YEAR FOLLOWING THE COMMENCEMENT OF COMMERCIAL OPERATION, SUBMIT START-UP/SHUTDOWN DATA AND A PERMIT MODIFICATION TO ESTABLISH ENFORCEABLE COMBUSTION TURBINE START-UP AND SHUTDOWN EMISSION RATES FOR NO<sub>x</sub>, CO, AND NH<sub>3</sub>, AND CONFIRM THAT SUCH ESTABLISHED RATES WOULD NOT RESULT IN A VIOLATION OF APPLICABLE NAAQS.

Manufacturer Name/Model Number: CEM  
Parameter Monitored: CARBON MONOXIDE  
Upper Permit Limit: 19.7 pounds per hour  
Reference Test Method: PT 60 APP B & F  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 4/30/2004.  
Subsequent reports are due every 3 calendar month(s).

**Condition 95: Compliance Certification**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.7(b)**

**Item 95.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004  
Process: P10

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

**Item 95.2:**



**New York State Department of Environmental Conservation**

**Permit ID: 2-6301-00072/00014**

**Facility DEC ID: 2630100072**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

4 PPM CO EMISSION LIMIT DURING  
DISTILLATE OIL FIRING IN GAS TURBINE  
BASED ON HHV OF FUEL. THIS EMISSION  
LIMIT APPLIES AT ALL TIMES, INCLUDING  
START-UP/SHUTDOWN, EQUIPMENT MAINTENANCE,  
MALFUNCTIONS AND UPSETS AS PER THE  
REQUIREMENTS OF 6NYCRR 201-1.4 .  
ASTORIA ENERGY WILL USE CEMS TO MONITOR  
CO EMISSION IN THE STACK. LAER IS  
REQUIRED.

Manufacturer Name/Model Number: CEM

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 4 parts per million by volume (dry,  
corrected to 15% O<sub>2</sub>)

Reference Test Method: PT 60 APP B & F

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2002.

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

**Condition 96: Compliance Certification**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.7(b)**

**Item 96.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004

Process: P10

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

**Item 96.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

0.007 LB/MMBTU VOC EMISSION LIMIT

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**Permit ID: 2-6301-00072/00014**

**Facility DEC ID: 2630100072**



DURING DISTILLATE OIL FIRING IN THE GAS TURBINE BASED ON HHV OF FUEL. THIS EMISSION LIMIT APPLIES AT ALL TIMES, INCLUDING START-UP/SHUTDOWN, EQUIPMENT MAINTENANCE, MALFUNCTIONS AND UPSETS AS PER THE REQUIREMENTS OF 6NYCRR 201-1.4 .

ASTORIA ENERGY WILL SHOW COMPLIANCE WITH VOC EMISSION BY STACK TESTING. THE REFERENCE TEST METHOD FOR VOC IS 40 CFR PART 60, APPENDIX A, METHOD 18 (FOR METHANE) AND METHOD 25A (FOR TOTAL). THE AVERAGING METHOD IS FOR THE REFERENCE TEST METHOD IS 1-HOUR AVERAGE. LAER IS REQUIRED.

Parameter Monitored: VOC

Upper Permit Limit: 0.007 pounds per million Btus

Reference Test Method: APP A, M 18 & 25A

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 97: Compliance Certification**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.7(b)**

**Item 97.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004

Process: P10

Regulated Contaminant(s):

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

**Item 97.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

6 PPM OF NOX EMISSION LIMIT DURING DISTILLATE OIL FIRING IN THE TURBINE BASED UPON HIGH HEATING VALUE (HHV) OF FUEL. THIS EMISSION LIMIT APPLIES AT ALL TIMES, INCLUDING START-UP/SHUTDOWN, EQUIPMENT MAINTENANCE, MALFUNCTIONS AND



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UPSETS AS PER THE REQUIREMENTS OF 6NYCRR  
201-1.4 . ASTORIA ENERGY WILL USE CEMS  
TO MONITOR NOX EMISSION AT THE STACK.  
LAER IS REQUIRED.

Manufacturer Name/Model Number: CEM  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 6 parts per million by volume (dry,  
corrected to 15% O<sub>2</sub>)  
Reference Test Method: Part 60, App B & F  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 3-HOUR BLOCK AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 7/30/2002.  
Subsequent reports are due every 3 calendar month(s).

**Condition 1-20: Compliance Certification**

**Effective between the dates of 01/21/2004 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 1-20.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004  
Process: P10

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

**Item 1-20.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

ASTORIA ENERGY WILL CONTROL AMMONIA  
EMISSION THROUGH PROPER OPERATION AND  
CONTROL OF THE SELECTIVE CATALYTIC  
REDUCTION (SCR). CONTROL OF THE AMMONIA  
FEED RATE WILL BE BASED ON THE NOX AND  
FUEL FLOW. THIS EMISSION LIMIT APPLIES  
AT ALL TIMES, INCLUDING  
START-UP/SHUTDOWN, EQUIPMENT MAINTENANCE,  
MALFUNCTIONS AND UPSETS AS PER THE  
REQUIREMENTS OF 6NYCRR 201-1.4

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**Permit ID: 2-6301-00072/00014**

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ASTORIA ENERGY SHALL, WITHIN ONE YEAR FOLLOWING THE COMMENCEMENT OF COMMERCIAL OPERATION, SUBMIT START-UP/SHUTDOWN DATA AND A PERMIT MODIFICATION TO ESTABLISH ENFORCEABLE COMBUSTION TURBINE START-UP AND SHUTDOWN EMISSION RATES FOR NO<sub>x</sub>, CO, AND NH<sub>3</sub>, AND CONFIRM THAT SUCH ESTABLISHED RATES WOULD NOT RESULT IN A VIOLATION OF APPLICABLE NAAQS.

Manufacturer Name/Model Number: CEM  
Parameter Monitored: AMMONIA  
Upper Permit Limit: 14.9 pounds per hour  
Reference Test Method: PT 60 APP B & F  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 3-HOUR BLOCK AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 4/30/2004.  
Subsequent reports are due every 3 calendar month(s).

**Condition 98: Compliance Certification**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 98.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004  
Process: P10

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

**Item 98.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING  
Monitoring Description:  
69.6 LB/HR LIMIT OF SULFUR DIOXIDE FOR THE TURBINE FIRING DISTILLATE FUEL OIL. THIS EMISSION LIMIT APPLIES AT ALL TIMES, INCLUDING START-UP/SHUTDOWN, EQUIPMENT MAINTENANCE, MALFUNCTIONS AND UPSETS AS PER THE REQUIREMENTS OF 6NYCRR 201-1.4 .



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**Permit ID: 2-6301-00072/00014**

**Facility DEC ID: 2630100072**

ASTORIA ENERGY WILL SHOW COMPLIANCE WITH SULFUR DIOXIDE EMISSION BY STACK TESTING. THE STACK TESTING IS REQUIRED ONCE DURING THE TERM OF THE PERMIT.

Parameter Monitored: SULFUR DIOXIDE  
Upper Permit Limit: 69.6 pounds per hour  
Reference Test Method: Part 60, App A, M 8  
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 99: Compliance Certification**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 99.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004  
Process: P10

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

**Item 99.2:**

Compliance Certification shall include the following monitoring:

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

ASTORIA ENERGY WILL CONTROL AMMONIA EMISSION THROUGH PROPER OPERATION AND CONTROL OF THE SELECTIVE CATALYTIC REDUCTION (SCR). CONTROL OF THE AMMONIA FEED RATE WILL BE BASED ON THE NOX AND FUEL FLOW. THIS EMISSION LIMIT APPLIES AT ALL TIMES, INCLUDING START-UP/SHUTDOWN, EQUIPMENT MAINTENANCE, MALFUNCTIONS AND UPSETS AS PER THE REQUIREMENTS OF 6NYCRR 201-1.4 .

Manufacturer Name/Model Number: CEM  
Parameter Monitored: AMMONIA  
Upper Permit Limit: 5.0 parts per million by volume  
(dry, corrected to 15% O2)  
Reference Test Method: PT 60 APP B & F



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**Facility DEC ID: 2630100072**

Monitoring Frequency: CONTINUOUS  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 7/30/2002.  
Subsequent reports are due every 3 calendar month(s).

**Condition 100: Compliance Certification**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 100.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004  
Process: P10

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

**Item 100.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING  
Monitoring Description:  
57.7 LB/HR PARTICULATES EMISSION LIMIT  
DURING DISTILLATE FUEL OIL FIRING IN THE  
GAS TURBINE BASED ON HHV OF FUEL.  
ASTORIA ENERGY WILL BURN NATURAL GAS AS  
THE PRIMARY FUEL WITH DISTILLATE FUEL OIL  
AS A BACKUP FUEL. THIS EMISSION LIMIT  
APPLIES AT ALL TIMES, INCLUDING  
START-UP/SHUTDOWN, EQUIPMENT MAINTENANCE,  
MALFUNCTIONS AND UPSETS AS PER THE  
REQUIREMENTS OF 6NYCRR 201-1.4 .  
ASTORIA ENERGY WILL SHOW COMPLIANCE WITH  
PARTICULATES EMISSION BY STACK TESTING.

Parameter Monitored: PARTICULATES  
Upper Permit Limit: 57.7 pounds per hour  
Reference Test Method: PART 60, APP A, M 5  
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 101: Compliance Certification**



**New York State Department of Environmental Conservation**

**Permit ID: 2-6301-00072/00014**

**Facility DEC ID: 2630100072**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 101.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004  
Process: P10

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

**Item 101.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

57.7 LB/HR PM-10 EMISSION LIMIT DURING  
DISTILLATE FUEL OIL FIRING IN THE GAS  
TURBINE BASED ON HHV OF FUEL. ASTORIA  
ENERGY WILL BURN NATURAL GAS AS THE  
PRIMARY FUEL WITH DISTILLATE FUEL OIL AS  
A BACKUP FUEL. THIS EMISSION LIMIT  
APPLIES AT ALL TIMES, INCLUDING  
START-UP/SHUTDOWN, EQUIPMENT MAINTENANCE,  
MALFUNCTIONS AND UPSETS AS PER THE  
REQUIREMENTS OF 6NYCRR 201-1.4 .  
ASTORIA ENERGY WILL SHOW COMPLIANCE WITH  
PM-10 EMISSION BY STACK TESTING.

Parameter Monitored: PM-10

Upper Permit Limit: 57.7 pounds per hour

Reference Test Method: App A, M 201A & 202

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 102: Compliance Certification**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 102.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004



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**Permit ID: 2-6301-00072/00014**

**Facility DEC ID: 2630100072**

Process: P10

Regulated Contaminant(s):

CAS No: 007664-93-9      SULFURIC ACID

**Item 102.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

21.9 LB/HR LIMIT OF SULFURIC ACID FOR  
THE TURBINE FIRING DISTILLATE FUEL OIL.  
THIS EMISSION LIMIT APPLIES AT ALL TIMES,  
INCLUDING START-UP/SHUTDOWN, EQUIPMENT  
MAINTENANCE, MALFUNCTIONS AND UPSETS AS  
PER THE REQUIREMENTS OF 6NYCRR 201-1.4 .  
ASTORIA ENERGY WILL SHOW COMPLIANCE WITH  
SULFURIC ACID EMISSION BY STACK TESTING.

Parameter Monitored: SULFURIC ACID

Upper Permit Limit: 21.9 pounds per hour

Reference Test Method: Part 60, App A, M 8

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 103: Compliance Certification**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 103.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001      Emission Point: 00004

Process: P10

Regulated Contaminant(s):

CAS No: 0NY075-00-5      PM-10

**Item 103.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

0.04 LB/MMBTU PM-10 EMISSION LIMIT  
DURING DISTILLATE FUEL OIL FIRING IN THE

**New York State Department of Environmental Conservation**

**Permit ID: 2-6301-00072/00014**

**Facility DEC ID: 2630100072**



GAS TURBINE BASED ON HHV OF FUEL.  
ASTORIA ENERGY WILL BURN NATURAL GAS AS  
THE PRIMARY FUEL WITH DISTILLATE FUEL OIL  
AS A BACKUP FUEL. THIS EMISSION LIMIT  
APPLIES AT ALL TIMES, INCLUDING  
START-UP/SHUTDOWN, EQUIPMENT MAINTENANCE,  
MALFUNCTIONS AND UPSETS AS PER THE  
REQUIREMENTS OF 6NYCRR 201-1.4 .  
ASTORIA ENERGY WILL SHOW COMPLIANCE WITH  
PM-10 EMISSION BY STACK TESTING.

Parameter Monitored: PM-10

Upper Permit Limit: 0.04 pounds per million Btus

Reference Test Method: App A, M 201A & 202

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 104: Compliance Certification**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 104.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004

Process: P10

Regulated Contaminant(s):

CAS No: 007664-93-9 SULFURIC ACID

**Item 104.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

0.0152 LB/MM BTU LIMIT OF SULFURIC ACID  
FOR THE TURBINE FIRING DISTILLATE FUEL  
OIL. THIS EMISSION LIMIT APPLIES AT ALL  
TIMES, INCLUDING START-UP/SHUTDOWN,  
EQUIPMENT MAINTENANCE, MALFUNCTIONS AND  
UPSETS AS PER THE REQUIREMENTS OF 6NYCRR  
201-1.4 . ASTORIA ENERGY WILL SHOW  
COMPLIANCE WITH SULFURIC ACID EMISSION BY  
STACK TESTING.



**New York State Department of Environmental Conservation**

**Permit ID: 2-6301-00072/00014**

**Facility DEC ID: 2630100072**

Parameter Monitored: SULFURIC ACID  
Upper Permit Limit: 0.0152 pounds per million Btus  
Reference Test Method: Part 60, App A, M 8  
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 105: Compliance Certification**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 105.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004  
Process: P10

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

**Item 105.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING  
Monitoring Description:  
0.04 LB/MMBTU PARTICULATES EMISSION  
LIMIT DURING DISTILLATE FUEL OIL FIRING  
IN THE GAS TURBINE BASED ON HHV OF FUEL.  
ASTORIA ENERGY WILL BURN NATURAL GAS AS  
THE PRIMARY FUEL WITH DISTILLATE FUEL OIL  
AS A BACKUP FUEL. THIS EMISSION LIMIT  
APPLIES AT ALL TIMES, INCLUDING  
START-UP/SHUTDOWN, EQUIPMENT MAINTENANCE,  
MALFUNCTIONS AND UPSETS AS PER THE  
REQUIREMENTS OF 6NYCRR 201-1.4 .  
ASTORIA ENERGY WILL SHOW COMPLIANCE WITH  
PARTICULATES EMISSION BY STACK TESTING.

Parameter Monitored: PARTICULATES  
Upper Permit Limit: 0.04 pounds per million Btus  
Reference Test Method: PART 60, APP A, M 5  
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 107: Compliance Certification**



**New York State Department of Environmental Conservation**

**Permit ID: 2-6301-00072/00014**

**Facility DEC ID: 2630100072**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 107.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001    Emission Point: 00004  
Process: P10

**Item 107.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC  
OPERATIONS

Monitoring Description:

ASTORIA ENERGY WILL BURN NATURAL GAS AS  
A PRIMARY FUEL AND DISTILLATE FUEL OIL AS  
A BACKUP FUEL (WHICH HAS A LIMIT OF 0.033  
% BY WEIGHT SULFUR CONTENT) FOR UP TO 720  
HOURS PER YEAR PER TURBINE.

Work Practice Type: HOURS PER YEAR OPERATION

Upper Permit Limit: 720 hours

Monitoring Frequency: DAILY

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2002.

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

**Condition 1-21: Compliance Certification**

**Effective between the dates of 01/21/2004 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.7(b)**

**Item 1-21.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001    Emission Point: 00004  
Process: P11

Regulated Contaminant(s):

CAS No: 000630-08-0    CARBON MONOXIDE

**Item 1-21.2:**

Compliance Certification shall include the following monitoring:

**New York State Department of Environmental Conservation**

**Permit ID: 2-6301-00072/00014**

**Facility DEC ID: 2630100072**



Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

7.15 LBS/HR CO EMISSION LIMIT DURING  
NATURAL GAS FIRING IN THE GAS TURBINE  
WITHOUT DUCT FIRING BASED ON HHV OF FUEL.  
THIS EMISSION LIMIT APPLIES AT ALL  
TIMES, INCLUDING START-UP/SHUTDOWN,  
EQUIPMENT MAINTENANCE, MALFUNCTIONS AND  
UPSETS AS PER THE REQUIREMENTS OF 6NYCRR  
201-1.4 . ASTORIA ENERGY WILL USE CEMS  
TO MONITOR CO EMISSION IN THE STACK.  
LAER IS REQUIRED.

ASTORIA ENERGY SHALL, WITHIN ONE YEAR  
FOLLOWING THE COMMENCEMENT OF COMMERCIAL  
OPERATION, SUBMIT START-UP/SHUTDOWN DATA  
AND A PERMIT MODIFICATION TO ESTABLISH  
ENFORCEABLE COMBUSTION TURBINE START-UP  
AND SHUTDOWN EMISSION RATES FOR NO<sub>x</sub>, CO,  
AND NH<sub>3</sub>, AND CONFIRM THAT SUCH  
ESTABLISHED RATES WOULD NOT RESULT IN A  
VIOLATION OF APPLICABLE NAAQS.

Manufacturer Name/Model Number: CEM  
Parameter Monitored: CARBON MONOXIDE  
Upper Permit Limit: 7.15 pounds per hour  
Reference Test Method: PT 60 APP B & F  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 4/30/2004.  
Subsequent reports are due every 3 calendar month(s).

**Condition 1-22: Compliance Certification**

**Effective between the dates of 01/21/2004 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.7(b)**

**Item 1-22.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004  
Process: P11

Regulated Contaminant(s):



**New York State Department of Environmental Conservation**

**Permit ID: 2-6301-00072/00014**

**Facility DEC ID: 2630100072**

CAS No: 0NY998-00-0 VOC

**Item 1-22.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

5.43 LBS/HR VOC EMISSION LIMIT DURING  
NATURAL GAS FIRING IN THE GAS TURBINE  
WITHOUT DUCT FIRING BASED ON HHV OF FUEL.  
THIS EMISSION LIMIT APPLIES AT ALL  
TIMES, INCLUDING START-UP/SHUTDOWN,  
EQUIPMENT MAINTENANCE, MALFUNCTIONS AND  
UPSETS AS PER THE REQUIREMENTS OF 6NYCRR  
201-1.4 . ASTORIA ENERGY WILL SHOW  
COMPLIANCE WITH VOC EMISSION BY STACK  
TESTING. THE REFERENCE TEST METHOD FOR  
VOC IS 40 CFR PART 60, APPENDIX A,  
METHOD 18 (FOR METHANE) AND METHOD 25A  
(FOR TOTAL). THE AVERAGING METHOD IS FOR  
THE REFERENCE TEST METHOD IS 1-HOUR  
AVERAGE. LAER IS REQUIRED.

Upper Permit Limit: 5.43 pounds per hour

Reference Test Method: APP A, M 18 & 25A

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 1-23: Compliance Certification**

**Effective between the dates of 01/21/2004 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.7(b)**

**Item 1-23.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004

Process: P11

Regulated Contaminant(s):

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

**Item 1-23.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

**New York State Department of Environmental Conservation**

**Permit ID: 2-6301-00072/00014**

**Facility DEC ID: 2630100072**



**Monitoring Description:**

15.6 LBS/HR OF NOX EMISSION LIMIT DURING NATURAL GAS FIRING IN THE GAS TURBINE WITHOUT DUCT FIRING BASED UPON HIGH HEATING VALUE (HHV) OF FUEL. THIS EMISSION LIMIT APPLIES AT ALL TIMES, INCLUDING START-UP/SHUTDOWN, EQUIPMENT MAINTENANCE, MALFUNCTIONS AND UPSETS AS PER THE REQUIREMENTS OF 6NYCRR 201-1.4 .

ASTORIA ENERGY WILL USE CEMS TO MONITOR NOX EMISSION AT THE STACK. LAER IS REQUIRED.

ASTORIA ENERGY SHALL, WITHIN ONE YEAR FOLLOWING THE COMMENCEMENT OF COMMERCIAL OPERATION, SUBMIT START-UP/SHUTDOWN DATA AND A PERMIT MODIFICATION TO ESTABLISH ENFORCEABLE COMBUSTION TURBINE START-UP AND SHUTDOWN EMISSION RATES FOR NO<sub>x</sub>, CO, AND NH<sub>3</sub>, AND CONFIRM THAT SUCH ESTABLISHED RATES WOULD NOT RESULT IN A VIOLATION OF APPLICABLE NAAQS.

Manufacturer Name/Model Number: CEM  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 15.6 pounds per hour  
Reference Test Method: Part 60, App B & F  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 3-HOUR BLOCK AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 4/30/2004.  
Subsequent reports are due every 3 calendar month(s).

**Condition 108: Compliance Certification**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.7(b)**

**Item 108.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004  
Process: P11

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

**New York State Department of Environmental Conservation**

**Permit ID: 2-6301-00072/00014**

**Facility DEC ID: 2630100072**



**Item 108.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

0.003 LB/MMBTU VOC EMISSION LIMIT  
DURING NATURAL GAS FIRING IN THE GAS  
TURBINE WITHOUT DUCT FIRING BASED ON HHV  
OF FUEL. THIS EMISSION LIMIT APPLIES AT  
ALL TIMES, INCLUDING START-UP/SHUTDOWN,  
EQUIPMENT MAINTENANCE, MALFUNCTIONS AND  
UPSETS AS PER THE REQUIREMENTS OF 6NYCRR  
201-1.4 . ASTORIA ENERGY WILL SHOW  
COMPLIANCE WITH VOC EMISSION BY STACK  
TESTING. THE REFERENCE TEST METHOD FOR  
VOC IS 40 CFR PART 60, APPENDIX A,  
METHOD 18 (FOR METHANE) AND METHOD 25A  
(FOR TOTAL). THE AVERAGING METHOD IS FOR  
THE REFERENCE TEST METHOD IS 1-HOUR  
AVERAGE. LAER IS REQUIRED.

Parameter Monitored: VOC

Upper Permit Limit: 0.003 pounds per million Btus

Reference Test Method: APP A, M 18 & 25A

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 109: Compliance Certification**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.7(b)**

**Item 109.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004

Process: P11

Regulated Contaminant(s):

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

**Item 109.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)



**New York State Department of Environmental Conservation**

**Permit ID: 2-6301-00072/00014**

**Facility DEC ID: 2630100072**

**Monitoring Description:**

2 PPM OF NOX EMISSION LIMIT DURING  
NATURAL GAS FIRING IN THE GAS TURBINE  
WITHOUT DUCT FIRING BASED UPON HIGH  
HEATING VALUE (HHV) OF FUEL. THIS  
EMISSION LIMIT APPLIES AT ALL TIMES,  
INCLUDING START-UP/SHUTDOWN, EQUIPMENT  
MAINTENANCE, MALFUNCTIONS AND UPSETS AS  
PER THE REQUIREMENTS OF 6NYCRR 201-1.4 .

ASTORIA ENERGY WILL USE CEMS TO MONITOR  
NOX EMISSION AT THE STACK. LAER IS  
REQUIRED.

Manufacturer Name/Model Number: CEM

Parameter Monitored: OXIDES OF NITROGEN

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

Reference Test Method: Part 60, App B & F

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2002.

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

**Condition 110: Compliance Certification**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.7(b)**

**Item 110.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004

Process: P11

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 110.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

1.5 PPM CO EMISSION LIMIT DURING  
NATURAL GAS FIRING IN THE GAS TURBINE  
WITHOUT DUCT FIRING BASED ON HHV OF FUEL.



**New York State Department of Environmental Conservation**

**Permit ID: 2-6301-00072/00014**

**Facility DEC ID: 2630100072**

THIS EMISSION LIMIT APPLIES AT ALL TIMES, INCLUDING START-UP/SHUTDOWN, EQUIPMENT MAINTENANCE, MALFUNCTIONS AND UPSETS AS PER THE REQUIREMENTS OF 6NYCRR 201-1.4 . ASTORIA ENERGY WILL USE CEMS TO MONITOR CO EMISSION IN THE STACK. LAER IS REQUIRED.

Manufacturer Name/Model Number: CEM  
Parameter Monitored: CARBON MONOXIDE  
Upper Permit Limit: 1.5 parts per million by volume  
(dry, corrected to 15% O<sub>2</sub>)  
Reference Test Method: PT 60 APP B & F  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 7/30/2002.  
Subsequent reports are due every 3 calendar month(s).

**Condition 1-24: Compliance Certification**

**Effective between the dates of 01/21/2004 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 1-24.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004  
Process: P11

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

**Item 1-24.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING  
Monitoring Description:  
0.90 LBS/HR SULFURIC ACID EMISSION LIMIT  
WHEN THE TURBINE IS FIRING NATURAL GAS  
AND IS WITHOUT DUCT FIRING. THIS  
EMISSION LIMIT APPLIES AT ALL TIMES,  
INCLUDING START-UP/SHUTDOWN, EQUIPMENT  
MAINTENANCE, MALFUNCTIONS AND UPSETS AS  
PER THE REQUIREMENTS OF 6NYCRR 201-1.4 .  
ASTORIA ENERGY WILL SHOW COMPLIANCE WITH

**New York State Department of Environmental Conservation**

**Permit ID: 2-6301-00072/00014**

**Facility DEC ID: 2630100072**



**SULFURIC ACID EMISSION BY STACK TESTING.**

Parameter Monitored: SULFURIC ACID

Upper Permit Limit: 0.90 pounds per hour

Reference Test Method: Part 60, App A, M 8

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 1-25: Compliance Certification**

**Effective between the dates of 01/21/2004 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 1-25.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004

Process: P11

Regulated Contaminant(s):

CAS No: 007664-41-7 AMMONIA

**Item 1-25.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

ASTORIA ENERGY WILL CONTROL AMMONIA EMISSION THROUGH PROPER OPERATION AND CONTROL OF THE SELECTIVE CATALYTIC REDUCTION (SCR). CONTROL OF THE AMMONIA FEED RATE WILL BE BASED ON THE NOX AND FUEL FLOW. THIS EMISSION LIMIT APPLIES AT ALL TIMES, INCLUDING START-UP/SHUTDOWN, EQUIPMENT MAINTENANCE, MALFUNCTIONS AND UPSETS AS PER THE REQUIREMENTS OF 6NYCRR 201-1.4

ASTORIA ENERGY SHALL, WITHIN ONE YEAR FOLLOWING THE COMMENCEMENT OF COMMERCIAL OPERATION, SUBMIT START-UP/SHUTDOWN DATA AND A PERMIT MODIFICATION TO ESTABLISH ENFORCEABLE COMBUSTION TURBINE START-UP AND SHUTDOWN EMISSION RATES FOR NO<sub>x</sub>, CO, AND NH<sub>3</sub>, AND CONFIRM THAT SUCH



**New York State Department of Environmental Conservation**

**Permit ID: 2-6301-00072/00014**

**Facility DEC ID: 2630100072**

ESTABLISHED RATES WOULD NOT RESULT IN A VIOLATION OF APPLICABLE NAAQS.

Manufacturer Name/Model Number: CEM  
Parameter Monitored: AMMONIA  
Upper Permit Limit: 14.1 pounds per hour  
Reference Test Method: PT 60 APP B & F  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 4/30/2004.  
Subsequent reports are due every 3 calendar month(s).

**Condition 1-26: Compliance Certification**

**Effective between the dates of 01/21/2004 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 1-26.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004  
Process: P11

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

**Item 1-26.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING  
Monitoring Description:  
0.0098 LB/MMBTU PARTICULATES EMISSION  
LIMIT DURING NATURAL GAS FIRING IN THE  
GAS TURBINE WITHOUT DUCT FIRING BASED  
UPON HHV OF FUEL. ASTORIA ENERGY WILL  
BURN NATURAL GAS AS PRIMARY FUEL. THIS  
EMISSION LIMIT APPLIES AT ALL TIMES,  
INCLUDING START-UP/SHUTDOWN, EQUIPMENT  
MAINTENANCE, MALFUNCTIONS AND UPSETS AS  
PER THE REQUIREMENTS OF 6NYCRR 201-1.4 .  
ASTORIA ENERGY WILL SHOW COMPLIANCE WITH  
PARTICULATES EMISSION BY STACK TESTING.

Parameter Monitored: PARTICULATES  
Upper Permit Limit: 0.0098 pounds per million Btus



**New York State Department of Environmental Conservation**

**Permit ID: 2-6301-00072/00014**

**Facility DEC ID: 2630100072**

Reference Test Method: PART 60, APP A, M 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 1-27: Compliance Certification**

**Effective between the dates of 01/21/2004 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 1-27.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004

Process: P11

Regulated Contaminant(s):

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

**Item 1-27.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

0.0098 LB/MMBTU PM-10 EMISSION LIMIT  
DURING NATURAL GAS FIRING IN THE GAS  
TURBINE WITHOUT DUCT FIRING BASED UPON  
HHV OF FUEL. ASTORIA ENERGY WILL BURN  
NATURAL GAS AS PRIMARY FUEL WITH  
DISTILLATE FUEL OIL AS A BACKUP FUEL.  
THIS EMISSION LIMIT APPLIES AT ALL TIMES,  
INCLUDING START-UP/SHUTDOWN, EQUIPMENT  
MAINTENANCE, MALFUNCTIONS AND UPSETS AS  
PER THE REQUIREMENTS OF 6NYCRR 201-1.4 .  
ASTORIA ENERGY WILL SHOW COMPLIANCE WITH  
PM-10 EMISSION BY STACK TESTING.

Parameter Monitored: PM-10

Upper Permit Limit: 0.0098 pounds per million Btus

Reference Test Method: App A, M 201A & 202

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 113: Compliance Certification**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**New York State Department of Environmental Conservation**

**Permit ID: 2-6301-00072/00014**

**Facility DEC ID: 2630100072**



**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 113.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001    Emission Point: 00004  
Process: P11

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

**Item 113.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

0.001 LB/MM BTU SULFURIC ACID EMISSION  
LIMIT WHEN THE TURBINE IS FIRING NATURAL  
GAS AND IS WITHOUT DUCT FIRING. THIS  
EMISSION LIMIT APPLIES AT ALL TIMES,  
INCLUDING START-UP/SHUTDOWN, EQUIPMENT  
MAINTENANCE, MALFUNCTIONS AND UPSETS AS  
PER THE REQUIREMENTS OF 6NYCRR 201-1.4 .  
ASTORIA ENERGY WILL SHOW COMPLIANCE WITH  
SULFURIC ACID EMISSION BY STACK TESTING.

Parameter Monitored: SULFURIC ACID

Upper Permit Limit: 0.001    pounds per million Btus

Reference Test Method: Part 60, App A, M 8

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 114: Compliance Certification**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 114.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001    Emission Point: 00004  
Process: P11

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



**New York State Department of Environmental Conservation**

**Permit ID: 2-6301-00072/00014**

**Facility DEC ID: 2630100072**

**Item 114.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

ASTORIA ENERGY WILL CONTROL AMMONIA EMISSION THROUGH PROPER OPERATION AND CONTROL OF THE SELECTIVE CATALYTIC REDUCTION (SCR). CONTROL OF THE AMMONIA FEED RATE WILL BE BASED ON THE NOX AND FUEL FLOW. THIS EMISSION LIMIT APPLIES AT ALL TIMES, INCLUDING START-UP/SHUTDOWN, EQUIPMENT MAINTENANCE, MALFUNCTIONS AND UPSETS AS PER THE REQUIREMENTS OF 6NYCRR 201-1.4 .

Manufacturer Name/Model Number: CEM

Parameter Monitored: AMMONIA

Upper Permit Limit: 5.0 parts per million by volume  
(dry, corrected to 15% O<sub>2</sub>)

Reference Test Method: PT 60 APP B & F

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2002.

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

**Condition 115: Compliance Certification**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 115.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004  
Process: P11

Regulated Contaminant(s):

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

**Item 115.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

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**Permit ID: 2-6301-00072/00014**

**Facility DEC ID: 2630100072**



12.9 LB/HR PM-10 EMISSION LIMIT DURING NATURAL GAS FIRING IN THE GAS TURBINE WITHOUT DUCT FIRING BASED UPON HHV OF FUEL. ASTORIA ENERGY WILL BURN NATURAL GAS AS PRIMARY FUEL WITH DISTILLATE FUEL OIL AS A BACKUP FUEL. THIS EMISSION LIMIT APPLIES AT ALL TIMES, INCLUDING START-UP/SHUTDOWN, EQUIPMENT MAINTENANCE, MALFUNCTIONS AND UPSETS AS PER THE REQUIREMENTS OF 6NYCRR 201-1.4 . ASTORIA ENERGY WILL SHOW COMPLIANCE WITH PM-10 EMISSION BY STACK TESTING.

Parameter Monitored: PM-10

Upper Permit Limit: 12.9 pounds per hour

Reference Test Method: App A, M 201A & 202

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 116: Compliance Certification**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 116.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004

Process: P11

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 116.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

12.9 LB/HR PARTICULATES EMISSION LIMIT DURING NATURAL GAS FIRING IN THE GAS TURBINE WITHOUT DUCT FIRING BASED UPON HHV OF FUEL. ASTORIA ENERGY WILL BURN NATURAL GAS AS PRIMARY FUEL. THIS EMISSION LIMIT APPLIES AT ALL TIMES, INCLUDING START-UP/SHUTDOWN, EQUIPMENT MAINTENANCE, MALFUNCTIONS AND UPSETS AS



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PER THE REQUIREMENTS OF 6NYCRR 201-1.4 .  
ASTORIA ENERGY WILL SHOW COMPLIANCE WITH  
PARTICULATES EMISSION BY STACK TESTING.

Parameter Monitored: PARTICULATES  
Upper Permit Limit: 12.9 pounds per hour  
Reference Test Method: PART 60, APP A, M 5  
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 118: Compliance Certification**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

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

**Item 118.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

**Item 118.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner and operator of each affected facility shall 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



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**Facility DEC ID: 2630100072**

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 119: Compliance Certification**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.7(b)**

**Item 119.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00002    Emission Point: 00005  
Process: P22                Emission Source: 00DFP

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

**Item 119.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

3.44 LB/MM BTU OF NOX EMISSION LIMIT  
DURING FUEL OIL FIRING IN THE DIESEL FIRE  
PUMP BASED UPON HIGH HEATING VALUE (HHV)  
OF FUEL.

THE STACK TESTING FOR OXIDES OF NITROGEN  
IS AN INITIAL STACK TESTING THAT WILL BE  
PERFORMED ONLY ONCE DURING THE LIFE OF  
THIS FIRE PUMP. THIS FACILITY CAN BE  
EXCUSED FROM PERFORMING THIS STACK TEST  
ONLY IF THIS FACILITY SUPPLIES NYSDEC  
WITH THE MAKE, MODEL AND THE  
MANUFACTURE'S OXIDES OF NITROGEN EMISSION  
GUARANTEE FOR THE FIRE PUMP THAT IS  
ACCEPTABLE TO THE DEPARTMENT AND WILL  
BECOME PART OF THIS TITLE V PERMIT.

Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 3.44 pounds per million Btus  
Reference Test Method: PT60, APP A, M7E  
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT  
Averaging Method: 3-HOUR BLOCK AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 120: Compliance Certification**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**New York State Department of Environmental Conservation**

Permit ID: 2-6301-00072/00014

Facility DEC ID: 2630100072



**Applicable Federal Requirement: 6NYCRR 231-2.7(b)**

**Item 120.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00002    Emission Point: 00005  
Process: P22                      Emission Source: 00DFP

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

**Item 120.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

0.18 LB/MM BTU CO EMISSION LIMIT  
DURING OIL FIRING IN THE DIESEL FIRE  
PUMP BASED ON HHV OF FUEL.

THE STACK TESTING FOR CARBON MONOXIDE IS  
AN INITIAL STACK TESTING THAT WILL BE  
PERFORMED ONLY ONCE DURING THE LIFE OF  
THIS FIRE PUMP. THIS FACILITY CAN BE  
EXCUSED FROM PERFORMING THIS STACK TEST  
ONLY IF THIS FACILITY SUPPLIES NYSDEC  
WITH THE MAKE, MODEL AND THE  
MANUFACTURE'S CARBON MONOXIDE EMISSION  
GUARANTEE FOR THE FIRE PUMP THAT IS  
ACCEPTABLE TO THE DEPARTMENT AND WILL  
BECOME PART OF THIS TITLE V PERMIT.

Parameter Monitored: CARBON MONOXIDE  
Upper Permit Limit: 0.18 pounds per million Btus  
Reference Test Method: PT 60, APP A, M10  
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 121: Compliance Certification**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 6NYCRR 231-2.7(b)**

**Item 121.1:**

The Compliance Certification activity will be performed for:



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**Permit ID: 2-6301-00072/00014**

**Facility DEC ID: 2630100072**

Emission Unit: U-00002    Emission Point: 00005  
Process: P22                Emission Source: 00DFP

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

**Item 121.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

0.11 LB/MM BTU VOC EMISSION LIMIT  
DURING OIL FIRING IN THE DIESEL FIRE  
PUMP BASED ON HHV OF FUEL. THE  
REFERENCE TEST METHOD FOR VOC IS 40 CFR  
PART 60, APPENDIX A, METHOD 18 (FOR  
METHANE) AND METHOD 25A (FOR TOTAL). THE  
AVERAGING METHOD IS FOR THE REFERENCE  
TEST METHOD IS 1-HOUR AVERAGE.

THE STACK TESTING FOR VOC IS AN INITIAL  
STACK TESTING THAT WILL BE PERFORMED ONLY  
ONCE DURING THE LIFE OF THIS FIRE PUMP.  
THIS FACILITY CAN BE EXCUSED FROM  
PERFORMING THIS STACK TEST ONLY IF THIS  
FACILITY SUPPLIES NYSDEC WITH THE MAKE,  
MODEL AND THE MANUFACTURE'S VOC EMISSION  
GUARANTEE FOR THE FIRE PUMP THAT IS  
ACCEPTABLE TO THE DEPARTMENT AND WILL  
BECOME PART OF THIS TITLE V PERMIT.

Parameter Monitored: VOC

Upper Permit Limit: 0.11 pounds per million Btus

Reference Test Method: APP A, M 18 & 25A

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 122: Compliance Certification**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 122.1:**

The Compliance Certification activity will be performed for:



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**Permit ID: 2-6301-00072/00014**

**Facility DEC ID: 2630100072**

Emission Unit: U-00002    Emission Point: 00005  
Process: P22                      Emission Source: 00DFP

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

**Item 122.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

0.06 LB/MMBTU OF PM-10 EMISSION LIMIT  
DURING FUEL OIL FIRING IN THE DIESEL  
FIRE PUMP BASED UPON HHV OF FUEL.

THE STACK TESTING FOR PM-10 IS AN INITIAL  
STACK TESTING THAT WILL BE PERFORMED ONLY  
ONCE DURING THE LIFE OF THIS FIRE PUMP.  
THIS FACILITY CAN BE EXCUSED FROM  
PERFORMING THIS STACK TEST ONLY IF THIS  
FACILITY SUPPLIES NYSDEC WITH THE MAKE,  
MODEL AND THE MANUFACTURE'S PM-10  
EMISSION GUARANTEE FOR THE FIRE PUMP THAT  
IS ACCEPTABLE TO THE DEPARTMENT AND WILL  
BECOME PART OF THIS TITLE V PERMIT.

Parameter Monitored: PM-10  
Upper Permit Limit: 0.06 pounds per million Btus  
Reference Test Method: METHOD 201A & 202  
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 123: Compliance Certification**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 123.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00002    Emission Point: 00005  
Process: P22                      Emission Source: 00DFP

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



**Item 123.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

0.06 LB/MMBTU OF PARTICULATES EMISSION  
LIMIT DURING FUEL OIL FIRING IN THE  
DIESEL FIRE PUMP BASED UPON HHV OF FUEL.

THE STACK TESTING FOR PARTICULATES IS AN  
INITIAL STACK TESTING THAT WILL BE  
PERFORMED ONLY ONCE DURING THE LIFE OF  
THIS FIRE PUMP. THIS FACILITY CAN BE  
EXCUSED FROM PERFORMING THIS STACK TEST  
ONLY IF THIS FACILITY SUPPLIES NYSDEC  
WITH THE MAKE, MODEL AND THE  
MANUFACTURE'S PARTICULATES EMISSION  
GUARANTEE FOR THE FIRE PUMP THAT IS  
ACCEPTABLE TO THE DEPARTMENT AND WILL  
BECOME PART OF THIS TITLE V PERMIT.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.06 pounds per million Btus

Reference Test Method: PT 60, APP A, M5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE



**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 1-28: Contaminant List**

**Effective between the dates of 01/21/2004 and 05/10/2007**

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

**Item 1-28.1:**

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

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

CAS No: 007664-41-7

Name: AMMONIA

CAS No: 000630-08-0

Name: CARBON MONOXIDE

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

CAS No: 0NY075-00-0

Name: PARTICULATES

CAS No: 0NY075-00-5

Name: PM-10

CAS No: 007446-09-5

Name: SULFUR DIOXIDE

CAS No: 007664-93-9

Name: SULFURIC ACID

CAS No: 0NY998-00-0

Name: VOC

**Condition 124: Unavoidable noncompliance and violations**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

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

Item 124.1:

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



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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 superseded 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 128: Air pollution prohibited**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable State Requirement: 6NYCRR 211.2**

**Item 128.1:**

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.

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

**Condition 129: Compliance Demonstration**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**New York State Department of Environmental Conservation**

**Permit ID: 2-6301-00072/00014**

**Facility DEC ID: 2630100072**



**Applicable State Requirement: 6NYCRR 201-5.3(b)**

**Item 129.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004

**Item 129.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

THE GAS TURBINE WILL ONLY FIRE NATURAL  
GAS AND DISTILLATE OIL.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2002.

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

**Condition 130: Compliance Demonstration**

**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable State Requirement: 6NYCRR 201-5.3(b)**

**Item 130.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001 Emission Point: 00004

**Item 130.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

THE GAS TURBINE WILL NOT OPERATE BELOW  
50% LOAD, EXCEPT DURING STARTUP AND  
SHUTDOWN.

Monitoring Frequency: CONTINUOUS

Averaging Method: AVERAGING METHOD - SEE MONITORING  
DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2002.

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

**Condition 131: Compliance Demonstration**  
**Effective between the dates of 05/10/2002 and 05/10/2007**

**Applicable State Requirement: 6NYCRR 201-5.3(b)**

**Item 131.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001    Emission Point: 00004  
Process: P10

**Item 131.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC  
OPERATIONS

Monitoring Description:

TOTAL ANNUAL DISTILLATE FUEL USE SHALL  
NOT EXCEED 41.6448 MILLION GALLONS PER  
YEAR WITHIN ANY CONSECUTIVE 365 DAY  
PERIOD FOR THE GAS TURBINES.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: FUEL

Upper Permit Limit: 41.6448 million gallons

Monitoring Frequency: DAILY

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2002.

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