Permit Review Report

Facility Identification Data
Name: ASTORIA GAS TURBINE POWER
Address: 31-01 20TH AVE
ASTORIA, NY 11105

Owner/Firm
Name: ASTORIA GAS TURBINE POWER LLC
Address: 4401 VICTORY BLVD
STATEN ISLAND, NY 10314, USA
Owner Classification: Corporation/Partnership

Permit Contacts
Division of Environmental Permits:
Name: STEPHEN M TOMASIK
Address: 625 BROADWAY
ALBANY, NY 12233
Phone:5184029167

Division of Air Resources:
Name: MICHAEL J JENNINGS
Address: 625 BROADWAY
ALBANY, NY 12233
Phone:5184028403

Air Permitting Contact:
Name: ALLAN FILIPPI
Address: NRG ASTORIA GAS TURBINE POWER LLC
4401 VICTORY BLVD
STATEN ISLAND, NY 10314
Phone:7183902734

Permit Description
Introduction
The Title V operating air permit is intended to be a document containing only enforceable terms and conditions as well as any additional information, such as the identification of emission units, emission points, emission sources and processes, that makes the terms meaningful. 40 CFR Part 70.7(a)(5) requires that each Title V permit have an accompanying "...statement that sets forth the legal and factual basis for the draft permit conditions". The purpose for this permit review report is to satisfy the above requirement by providing pertinent details regarding the permit/application data and permit conditions in a more easily understandable format. This report will also include background narrative and explanations of regulatory decisions made by the reviewer. It should be emphasized that this permit review report, while based on information contained in the permit, is a separate document and is not itself an enforceable term and condition of the permit.

Summary Description of Proposed Project
The project will entail the removal and replacement of the existing 31 Westinghouse and Pratt & Whitney simple cycle combustion turbines in two phases. Phase I will remove the existing Westinghouse turbines and replace them with two CC-Fast turbines (combined cycle GE Frame 7FA combustion turbines). Phase II will remove the existing Pratt & Whitney turbines and replace them with two CC-Fast turbines. This project will replace the current 600 MW of power output with 1040 MW of power output with no
significant net emission increases (most pollutant emissions will decrease). Therefore, this project will not be subject to any new source review requirements.

**Attainment Status**

ASTORIA GAS TURBINE POWER is located in the town of QUEENS in the county of QUEENS. The attainment status for this location is provided below. (Areas classified as attainment are those that meet all ambient air quality standards for a designated criteria air pollutant.)

<table>
<thead>
<tr>
<th>Criteria Pollutant</th>
<th>Attainment Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Particulate Matter (PM)</td>
<td>ATTAINMENT</td>
</tr>
<tr>
<td>Particulate Matter&lt; 10µ in diameter (PM10)</td>
<td>ATTAINMENT</td>
</tr>
<tr>
<td>Sulfur Dioxide (SO2)</td>
<td>ATTAINMENT</td>
</tr>
<tr>
<td>Ozone*</td>
<td>SEVERE NON-ATTAINMENT</td>
</tr>
<tr>
<td>Oxides of Nitrogen (NOx)**</td>
<td>ATTAINMENT</td>
</tr>
<tr>
<td>Carbon Monoxide (CO)</td>
<td>ATTAINMENT</td>
</tr>
</tbody>
</table>

* Ozone is regulated in terms of the emissions of volatile organic compounds (VOC) and/or oxides of nitrogen (NOx) which are ozone precursors.
** NOx has a separate ambient air quality standard in addition to being an ozone precursor.

**Facility Description:**

The facility consists of 31 Westinghouse and Pratt Whitney simple cycle combustion turbines (Westinghouse GT-9 was destroyed in a fire in 2000). These turbines are permitted to fire both natural gas and distillate oil and do not employ any control equipment.

**Permit Structure and Description of Operations**

The Title V permit for ASTORIA GAS TURBINE POWER is structured in terms of the following hierarchy: facility, emission unit, emission point, emission source and process. A facility is defined as all emission sources located at one or more adjacent or contiguous properties owned or operated by the same person or persons under common control. The facility is subdivided into one or more emission units (EU). Emission units are defined as any part or activity of a stationary facility that emits or has the potential to emit any federal or state regulated air pollutant. An emission unit is represented as a grouping of processes (defined as any activity involving one or more emission sources (ES) that emits or has the potential to emit any federal or state regulated air pollutant. An emission source is defined as any apparatus, contrivance or machine capable of causing emissions of any air contaminant to the outdoor atmosphere, including any appurtenant exhaust system or air cleaning device. [NOTE: Indirect sources of air contamination as defined in 6 NYCRR Part 203 (i.e. parking lots) are excluded from this definition]. The applicant is required to identify the principal piece of equipment (i.e., emission source) that directly results in or controls the emission of federal or state regulated air pollutants from an activity (i.e., process). Emission sources are categorized by the following types:

- combustion - devices which burn fuel to generate heat, steam or power
- incinerator - devices which burn waste material for disposal
- control - emission control devices
- process - any device or contrivance which may emit air contaminants that is not included in the above categories.
ASTORIA GAS TURBINE POWER is defined by the following emission unit(s):

Emission unit U00001 - This emission unit consists of 7 Westinghouse simple cycle fuel oil only fired combustion turbines, and 24 Pratt & Whitney gas or oil fired simple cycle combustion turbines. The existing 31 simple cycle combustion turbines will be replaced with 4 combine cycle combustion turbines in two phases. Phase I of the proposed facility project will remove the 7 existing Westinghouse combustion turbines and replace them with two CC-Fast turbines primarily gas fired with limited oil backup. Phase II will remove the existing 24 Pratt & Whitney combustion turbines and replace them with two CC-Fast turbines primarily gas fired with limited oil backup.

Emission unit U00001 is associated with the following emission points (EP):

Process: CNG This process is the combustion of compressed natural gas in the Pratt Whitney turbines. This process includes all 24 Pratt & Whitney turbines when they are firing natural gas.

Process: GTD is located at OUTDOORS - This process includes the combustion of distillate fuel (Kerosene, #2 fuel oil) in 31 combustion turbines: GT21A, GT21B, through GT24A, GT24B; GT31A, GT31B, through GT34A, GT34B; AND, GT41A, GT41B, through GT44A, GT44B, which are rated at 255 MMBTU/HR each; GT005, GT007, and GT008 which are rated at 239 MMBTU/HR each; AND, GT010 through GT013 which are rated at 345 MMBTU/HR each.

Process: NG1 Natural gas firing in the combustion turbine.

Process: OL1 Distillate oil firing in the combustion turbine.

Emission unit A00005 - This emission unit contains 31 simple cycle combustion turbines and seven starting engines. There are 12 sets of 2 turbines / generator and they are listed as A & B. These sets burn natural gas or distillate. There are seven additional turbines; 5, 7, 8, and 10 through 13, which burn only distillate oil and have diesel starter engines.

Emission unit A00005 is associated with the following emission points (EP):
SD005, SD007, SD008, SD010, SD011, SD012, SD013

Process: CNG This process is the combustion of compressed natural gas in the Pratt Whitney turbines. This process includes all 24 Pratt & Whitney turbines when they are firing natural gas.
Process: GTD is located at OUTDOORS, Building GTFAC - THIS PROCESS INCLUDES THE COMBUSTION OF DISTILLATE FUEL (KEROSENE, #2 FUEL OIL) IN 31 COMBUSTION TURBINES: GT21A, GT21B, THROUGH GT24A, GT24B; GT31A, GT31B, THROUGH GT34A, GT34B; AND, GT41A, GT41B, THROUGH GT44A, GT44B, WHICH ARE RATED AT 255 MMBTU/HR EACH; GT005, GT007, AND GT008 WHICH ARE RATED AT 239 MMBTU/HR EACH; AND, GT010 THROUGH GT013 WHICH ARE RATED AT 345 MMBTU/HR EACH.

Title V/Major Source Status
ASTORIA GAS TURBINE POWER is subject to Title V requirements. This determination is based on the following information:
The Astoria Gas Turbine Power facility is a Major facility because the potential emissions of Particulates, Carbon Monoxide, Sulfur Dioxide, Oxides of Nitrogen, and Volatile Organic Compounds exceed their respective Major Source Thresholds of 100 TPY, 50 TPY, 100 TPY, 25 TPY, and 25 TPY.

Program Applicability
The following chart summarizes the applicability of ASTORIA GAS TURBINE POWER with regards to the principal air pollution regulatory programs:

<table>
<thead>
<tr>
<th>Regulatory Program</th>
<th>Applicability</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSD</td>
<td>NO</td>
</tr>
<tr>
<td>NSR (non-attainment)</td>
<td>NO</td>
</tr>
<tr>
<td>NESHAP (40 CFR Part 61)</td>
<td>NO</td>
</tr>
<tr>
<td>NESHAP (MACT - 40 CFR Part 63)</td>
<td>NO</td>
</tr>
<tr>
<td>NSPS</td>
<td>YES</td>
</tr>
<tr>
<td>TITLE IV</td>
<td>YES</td>
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<tr>
<td>TITLE V</td>
<td>YES</td>
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<tr>
<td>TITLE VI</td>
<td>NO</td>
</tr>
<tr>
<td>RACT</td>
<td>YES</td>
</tr>
<tr>
<td>SIP</td>
<td>YES</td>
</tr>
</tbody>
</table>

NOTES:
PSD Prevention of Significant Deterioration (40 CFR 52) - requirements which pertain to major stationary sources located in areas which are in attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

NSR New Source Review (6 NYCRR Part 231) - requirements which pertain to major stationary sources located in areas which are in non-attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

NESHAP National Emission Standards for Hazardous Air Pollutants (40 CFR 61) - contaminant and source specific emission standards established prior to the Clean Air Act Amendments of 1990 (CAAA)
which were developed for 9 air contaminants (inorganic arsenic, radon, benzene, vinyl chloride, asbestos, mercury, beryllium, radionuclides, and volatile HAP's).

MACT  Maximum Achievable Control Technology (40 CFR 63) - contaminant and source specific emission standards established by the 1990 CAAA. Under Section 112 of the CAAA, the US EPA is required to develop and promulgate emissions standards for new and existing sources. The standards are to be based on the best demonstrated control technology and practices in the regulated industry, otherwise known as MACT. The corresponding regulations apply to specific source types and contaminants.

NSPS  New Source Performance Standards (40 CFR 60) - standards of performance for specific stationary source categories developed by the US EPA under Section 111 of the CAAA. The standards apply only to those stationary sources which have been constructed or modified after the regulations have been proposed by publication in the Federal Register and only to the specific contaminant(s) listed in the regulation.

Title IV Acid Rain Control Program (40 CFR 72 thru 78) - regulations which mandate the implementation of the acid rain control program for large stationary combustion facilities.

Title VI Stratospheric Ozone Protection (40 CFR 82, Subparts A thru G) - federal requirements that apply to sources which use a minimum quantity of CFC’s (chlorofluorocarbons), HCFC’s (hydrofluorocarbons) or other ozone depleting substances or regulated substitute substances in equipment such as air conditioners, refrigeration equipment or motor vehicle air conditioners or appliances.

RACT  Reasonably Available Control Technology (6 NYCRR Parts 212.10, 226, 227-2, 228, 229, 230, 232, 233, 234, 235, 236) - the lowest emission limit that a specific source is capable of meeting by application of control technology that is reasonably available, considering technological and economic feasibility. RACT is a control strategy used to limit emissions of VOC’s and NOx for the purpose of attaining the air quality standard for ozone. The term as it is used in the above table refers to those state air pollution control regulations which specifically regulate VOC and NOx emissions.

SIP  State Implementation Plan (40 CFR 52, Subpart HH) - as per the CAAA, all states are empowered and required to devise the specific combination of controls that, when implemented, will bring about attainment of ambient air quality standards established by the federal government and the individual state. This specific combination of measures is referred to as the SIP. The term here refers to those state regulations that are approved to be included in the SIP and thus are considered federally enforceable.

**Compliance Status**
Facility is in compliance with all requirements.

**SIC Codes**
SIC or Standard Industrial Classification code is an industrial code developed by the federal Office of Management and Budget for use, among other things, in the classification of establishments by the type of activity in which they are engaged. Each operating establishment is assigned an industry code on the basis of its primary activity, which is determined by its principal product or group of products produced or distributed, or services rendered. Larger facilities typically have more than one SIC code.

<table>
<thead>
<tr>
<th>SIC Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>4911</td>
<td>ELECTRIC SERVICES</td>
</tr>
</tbody>
</table>
SCC Codes
SCC or Source Classification Code is a code developed and used by the USEPA to categorize processes which result in air emissions for the purpose of assessing emission factor information. Each SCC represents a unique process or function within a source category logically associated with a point of air pollution emissions. Any operation that causes air pollution can be represented by one or more SCC’s.

SCC Code | Description
--- | ---
2-01-001-01 | INTERNAL COMBUSTION ENGINES - ELECTRIC GENERATION ELECTRIC UTILITY INTERNAL COMBUSTION ENGINE - DISTILLATE OIL (DIESEL) Turbine
2-01-002-01 | INTERNAL COMBUSTION ENGINES - ELECTRIC GENERATION ELECTRIC UTILITY INTERNAL COMBUSTION ENGINE - NATURAL GAS Turbine
2-02-007-01 | INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION ENGINE - PROCESS GAS PROCESS GAS INDUSTRIAL TURBINE
2-02-009-01 | INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION ENGINE - KEROSENE/NAPHTHA (JET FUEL) Turbine

Facility Emissions Summary
In the following table, the CAS No. or Chemical Abstract Service code is an identifier assigned to every chemical compound. [NOTE: Certain CAS No.’s contain a ‘NY’ designation within them. These are not true CAS No.’s but rather an identification which has been developed by the department to identify groups of contaminants which ordinary CAS No.’s do not do. As an example, volatile organic compounds or VOC’s are identified collectively by the NY CAS No. 0NY998-00-0.] The PTE refers to the Potential to Emit. This is defined as the maximum capacity of a facility or air contaminant source to emit any air contaminant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or air contamination source to emit any air contaminant, including air pollution control equipment and/or restrictions on the hours of operation, or on the type or amount or material combusted, stored, or processed, shall be treated as part of the design only if the limitation is contained in federally enforceable permit conditions. The PTE Range represents an emission range for a contaminant. Any PTE quantity that is displayed represents a facility-wide emission cap or limitation for that contaminant. If no PTE quantity is displayed, the PTE Range is provided to indicate the approximate magnitude of facility-wide emissions for the specified contaminant in terms of tons per year (tpy). The term ‘HAP’ refers to any of the hazardous air pollutants listed in section 112(b) of the Clean Air Act Amendments of 1990. Total emissions of all hazardous air pollutants are listed under the special NY CAS No. ONY100-00-0. In addition, each individual hazardous air pollutant is also listed under its own specific CAS No. and is identified in the list below by the (HAP) designation.

<table>
<thead>
<tr>
<th>Cas No.</th>
<th>Contaminant Name</th>
<th>PTE</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>000106-99-0</td>
<td>1,3-BUTADIENE</td>
<td>&gt; 0 but &lt; 10 tpy</td>
<td></td>
</tr>
<tr>
<td>000075-07-0</td>
<td>ACETALDEHYDE</td>
<td>&gt; 0 but &lt; 10 tpy</td>
<td></td>
</tr>
</tbody>
</table>
NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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

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

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

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

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

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

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

The Department will make available to the public any permit application, compliance
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 - 6 NYCRR 201-6.5(a)(5)

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

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

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

Item I:  Severability - 6 NYCRR 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 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 is to be reopened, except that the Department may provide a shorter time...
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.

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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.

Regulatory Analysis

<table>
<thead>
<tr>
<th>Location/Facility/EU/EP/Process/ES</th>
<th>Regulation</th>
<th>Condition</th>
<th>Short Description</th>
</tr>
</thead>
</table>
| FACILITY                         | ECL 19-0301| 61        | Powers and Duties of the Department with

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<table>
<thead>
<tr>
<th>FACILITY</th>
<th>40CFR 60-A.11</th>
<th>1 -42</th>
</tr>
</thead>
<tbody>
<tr>
<td>FACILITY</td>
<td>40CFR 60-A.12</td>
<td>1 -43</td>
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<td>FACILITY</td>
<td>40CFR 60-A.13</td>
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<tr>
<td>FACILITY</td>
<td>6NYCRR 200.7</td>
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</table>

respect to air pollution control standards and maintenance requirements.

General provisions - Compliance with standards and maintenance requirements.

General provisions - Circumvention.

General provisions - Monitoring requirements.

General provisions - Modification.

General provisions - Reconstruction.

General provisions - Address.

Notification and Recordkeeping.

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Notification and Recordkeeping.

Performance Tests.

Performance Tests.

Performance Tests.

Performance Tests.

Performance Tests.

Notification and Recordkeeping.

Stationary Combustion Turbine NSPS - Exemption from monitoring total sulfur content of fuel.

Stationary Combustion Turbine NSPS - defining excess emissions and monitor downtime for SO2.

Stationary Combustion Turbine NSPS - report submittal requirement.

Chemical accident prevention provisions.

Permits regulation.

Protection of Stratospheric Ozone - recycling and emissions reduction.

Acceptable ambient air quality.

Acceptable ambient air quality.

Maintenance of
| FACILITY | 6NYCRR 201-1.4 | 62, 1 -52 | equipment. Unavoidable noncompliance and violations |
| FACILITY | 6NYCRR 201-1.7 | 11 | Recycling and Salvage |
| FACILITY | 6NYCRR 201-1.8 | 12 | Prohibition of reintroduction of collected contaminants to the air |
| FACILITY | 6NYCRR 201-3.2(a) | 13 | Exempt Activities - Proof of eligibility |
| FACILITY | 6NYCRR 201-3.3(a) | 14 | Trivial Activities - proof of eligibility |
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| U-00001 | 6NYCRR 201-6 | 1 -48 | Title V Permits and the Associated Permit Conditions |
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| FACILITY | 6NYCRR 201-6.5(c)(2) | 4 | Permit conditions for Recordkeeping and Reporting of Compliance Monitoring |
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Applicability Discussion:

Mandatory Requirements: The following facility-wide regulations are included in all Title V permits:

ECL 19-0301
This section of the Environmental Conservation Law establishes the powers and duties assigned to the Department with regard to administering the air pollution control program for New York State.

6 NYCRR 200.6
Acceptable ambient air quality - prohibits contravention of ambient air quality standards without mitigating measures

6 NYCRR 200.7
Anyone owning or operating an air contamination source which is equipped with an emission control device must operate the control consistent with ordinary and necessary practices, standards and procedures, as per manufacturer’s specifications and keep it in a satisfactory state of maintenance and repair so that it operates effectively

6 NYCRR 201-1.4
This regulation specifies the actions and recordkeeping and reporting requirements for any violation of an applicable state enforceable emission standard that results from a necessary scheduled equipment maintenance, start-up, shutdown, malfunction or upset in the event that these are unavoidable.

6 NYCRR 201-1.7
Requires the recycle and salvage of collected air contaminants where practical

6 NYCRR 201-1.8
Prohibits the reintroduction of collected air contaminants to the outside air

6 NYCRR 201-3.2 (a)
An owner and/or operator of an exempt emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains exempt emission sources or units, 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.

6 NYCRR 201-3.3 (a)
The owner and/or operator of a trivial emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains trivial 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.

6 NYCRR Subpart 201-6
This regulation applies to those terms and conditions which are subject to Title V permitting. It establishes the applicability criteria for Title V permits, the information to be included in all Title V permit applications as well as the permit content and terms of permit issuance. This rule also specifies the compliance, monitoring, recordkeeping, reporting, fee, and procedural requirements that need to be met to obtain a Title V permit, modify the permit and demonstrate conformity with applicable requirements as listed in the Title V permit. For permitting purposes, this rule specifies the need to identify and describe all emission units, processes and products in the permit application as well as providing the Department the authority to include this and any other information that it deems necessary to determine the compliance status of the facility.

6 NYCRR 201-6.5 (a) (4)
This mandatory requirement applies to all Title V facilities. It requires the permittee to provide information that the Department may request in writing, within a reasonable time, in order to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. The request may include copies of records required to be kept by the permit.

6 NYCRR 201-6.5 (a) (7)
This is a mandatory condition that requires the owner or operator of a facility subject to Title V requirements to pay all applicable fees associated with the emissions from their facility.

6 NYCRR 201-6.5 (a) (8)
This is a mandatory condition for all facilities subject to Title V requirements. It allows the Department to inspect the facility to determine compliance with this permit, including copying records, sampling and monitoring, as necessary.
6 NYCRR 201-6.5 (c)
This requirement specifies, in general terms, what information must be contained in any required compliance monitoring records and reports. This includes the date, time and place of any sampling, measurements and analyses; who performed the analyses; analytical techniques and methods used as well as any required QA/QC procedures; results of the analyses; the operating conditions at the time of sampling or measurement and the identification of any permit deviations. All such reports must also be certified by the designated responsible official of the facility.

6 NYCRR 201-6.5 (c) (2)
This requirement specifies that all compliance monitoring and recordkeeping is to be conducted according to the terms and conditions of the permit and follow all QA requirements found in applicable regulations. It also requires monitoring records and supporting information to be retained for at least 5 years from the time of sampling, measurement, report or application. Support information is defined as including all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

6 NYCRR 201-6.5 (c) (3) (ii)
This regulation specifies any reporting requirements incorporated into the permit must include provisions regarding the notification and reporting of permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken.

6 NYCRR 201-6.5 (d) (5)
This condition applies to every Title V facility subject to a compliance schedule. It requires that reports, detailing the status of progress on achieving compliance with emission standards, be submitted semiannually.

6 NYCRR 201-6.5 (e)
Sets forth the general requirements for compliance certification content; specifies an annual submittal frequency; and identifies the EPA and appropriate regional office address where the reports are to be sent.

6 NYCRR 201-6.5 (f) (6)
This condition allows changes to be made at the facility, without modifying the permit, provided the changes do not cause an emission limit contained in this permit to be exceeded. The owner or operator of the facility must notify the Department of the change. It is applicable to all Title V permits which may be subject to an off permit change.

6 NYCRR 201-6.5 (g)
Permit Exclusion Provisions - specifies those actions, such as administrative orders, suits, claims for natural resource damages, etc that are not affected by the federally enforceable portion of the permit, unless they are specifically addressed by it.

6 NYCRR 202-1.1
This regulation allows the department the discretion to require an emission test for the purpose of determining compliance. Furthermore, the cost of the test, including the preparation of the report are to be borne by the owner/operator of the source.

6 NYCRR 202-2.1
Requires that emission statements shall be submitted on or before April 15th each year for emissions of the previous calendar year.
6 NYCRR 202.5
This rule specifies that each facility required to submit an emission statement must retain a copy of the statement and supporting documentation for at least 5 years and must make the information available to department representatives.

6 NYCRR 211.2
This regulation prohibits any emissions of air contaminants to the outdoor atmosphere which may be detrimental to human, plant or animal life or to property, or which unreasonably interferes with the comfortable enjoyment of life or property regardless of the existence of any specific air quality standard or emission limit.

6 NYCRR 211.3
This condition requires that the opacity (i.e., the degree to which emissions other than water reduce the transmission of light) of the emissions from any air contamination source be less than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent.

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

40 CFR Part 68
This Part lists the regulated substances and their applicability thresholds and sets the requirements for stationary sources concerning the prevention of accidental releases of these substances.

Facility Specific Requirements
In addition to Title V, ASTORIA GAS TURBINE POWER has been determined to be subject to the following regulations:

40 CFR 60.11
This regulation specifies the type of opacity monitoring requirements in relation to compliance with the standards and maintenance requirements.

40 CFR 60.12
This regulation prohibits an owner or operator from concealing emissions in violation of applicable standards by any means.
40 CFR 60.13
This regulation specifies how monitoring shall be performed and which methods and appendices are used to determine if the monitoring is adequate and in compliance with the regulated standards.

40 CFR 60.14
This regulation defines the term modification and what is and is not considered to be a modification, for the purpose of rule applicability.

40 CFR 60.15
This regulation defines the term reconstruction and what is and is not considered to be a reconstruction project, for the purpose of rule applicability.

40 CFR 60.4
This condition lists the USEPA Region 2 address for the submittal of all communications to the "Administrator". In addition, all such communications must be copied to NYSDEC Bureau of Quality Assurance (BQA).

40 CFR 60.4365 (a)
This section provides an exemption from monitoring total sulfur content of the fuel used by a facility.

40 CFR 60.4385
This section defines sulfur dioxide excess emissions and monitor downtime provisions.

40 CFR 60.4395
This section provides the report submittal requirements of this regulation.

40 CFR 60.7 (a)
This regulation requires any owner or operator subject to a New Source Performance Standard (NSPS) to furnish the Administrator with notification of the dates of: construction or reconstruction, initial startup, any physical or operational changes, commencement of performance testing for continuous monitors and anticipated date for opacity observations as required.

40 CFR 60.7 (b)
This regulation requires the owner or operator to maintain records of the occurrence and duration of any startup, shutdown, or malfunction of the source or control equipment or continuous monitoring system.
40 CFR 60.7 (c)  
This requirement details the information to be submitted in excess emissions and monitoring systems performance reports which must be submitted at least semi-annually for sources with compliance monitoring systems.

40 CFR 60.7 (d)  
This condition specifies the required information and format for a summary report form and details when either a summary form and/or excess emissions reports are required.

40 CFR 60.7 (f)  
This condition specifies requirements for maintenance of files of all measurements, including continuous monitoring system (CMS), monitoring device, and performance testing measurements; all CMS performance evaluations; all CMS or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices for at least two years.

40 CFR 60.7 (g)  
This condition allows source owners to use reporting required for state or local agencies to satisfy the paragraph (a) reporting requirements of this section of this rule.

40 CFR 60.8 (a)  
This regulation contains the requirements for the completion date and reporting of Performance Testing (stack testing), at the facility. Within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup, the owner or operator of the facility must conduct performance test(s) and furnish a written report of the test results.

40 CFR 60.8 (c)  
This condition contains the requirements for operating conditions, of the emission source, during performance testing.

40 CFR 60.8 (d)  
This regulation contains the requirements for advance notification of Performance (stack) testing.

40 CFR 60.8 (e)  
This regulation requires the facility to provide appropriate sampling ports, safe platforms and utilities as necessary for Performance (stack) testing.

40 CFR 60.8 (f)  
This regulation requires that Performance (stack) tests consist of three runs unless otherwise specified. The rule also designates the allowable averaging methods for the analysis of the results.
40 CFR 60.9
This rule citation allows the public access to any information submitted to the EPA Administrator (or state contact), in conjunction with a project subject to this section of the regulation.

40 CFR Part 72
In order to reduce acid rain the the U.S. and Canada, Title IV of the Clean Air Act Amendments of 1990 requires the establishment of a program to reduce emissions of SO2 and NOx (sulfur dioxide and oxides of nitrogen). Fossil fuel burning electric utility companies are a major source of these contaminants in the US. These sources where regulated in a phased approach. Phase I, which began in 1995, requires 110 of the higher-emitting utility plants in the eastern and Midwest states to meet intermediate SO2 emission limitations. Phase II, which began in 2000, tightens the emission limitations and expands the coverage to most fossil fuel burning utilities. The utilities are given "allowances" which is a limited authorization to emit one ton of SO2. The utilities are required to limit SO2 emissions to the number of allowances they hold. Some can benefit however by reducing their emissions and selling their excess allowances. Part 72 contains the means of implementing this portion of Title IV of the Clean Air Act.

6 NYCRR 204-2.1
This condition states the submission requirements for the NOx Budget Trading Program. The Program is designed to mitigate the interstate transport of ground level ozone and nitrogen oxides, a ground level ozone precursor.

6 NYCRR 204-4.1
This condition covers the compliance certification report requirements for the NOx Budget Program.

6 NYCRR 204-7.1
This condition lists the requirements for transfer of allowances in the NOx Budget Program.

6 NYCRR 204-8.1
This condition lists the general requirements for the NOx Budget trading program. They include, but are not limited to monitoring requirements, certification, record keeping and reporting.

6 NYCRR 204-8.2
This condition covers the procedures for initially certifying and recertifying the monitoring systems of the unit meet the requirements of the NOx Budget Program.

6 NYCRR 204-8.3
This condition states the requirements for data substitution during times when the monitoring systems to not meet applicable quality assurance requirements.

6 NYCRR 204-8.4
This condition lists the addresses where monitoring plans and their modifications, compliance certifications, recertifications, quarterly QA/QC reports and petitions for alternative monitoring shall be sent.

6 NYCRR 225.1 (a) (3)
This regulation limits the amount of sulfur that can be in fuel burned at a stationary source. It references
Table 1 of the 1979 version of the sulfur in fuel limitations expressed in terms of percent by weight for fuel oil and pounds per million Btu gross heat content for solid fuel. **NOTE: This citation has been replaced by requirements cited under 225-1.2(a)(2) and is no longer part of current State regulations, however, it remains part of New York State's approved State Implementation Plan (SIP).**

6 NYCRR 225-1.7 (c)  
This regulation requires that measurements be made daily of the rate of each fuel burned, the gross heat content and ash content of each fuel burned (determined at least once per week), and the average electrical output (daily) and hourly generation rate.

6 NYCRR 225-1.8 (d)  
This requires that sampling, compositing and analysis of fuel samples must be done in accordance with methods acceptable to the commissioner.

6 NYCRR 227-2 (b) (1)  
This regulation is from the 1972 version of Part 227 and still remains as part of New York's SIP. The rule establishes a particulate limit of 0.10 lbs/mmBtu based on a 2 hour average emission for any oil fired stationary combustion installation.

6 NYCRR 227-1.3 (a)  
This regulation prohibits any person from operating a stationary combustion installation which emits smoke equal to or greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.

6 NYCRR 227-2.5 (b)  
The system-wide average shall consist of a weighted average allowable emission rate based upon the weighted average of actual emissions from units that are operating. Excess reductions utilized in the system-wide average may only be counted from the lowest allowable emission rate. Simply put, if there is a more stringent emission limit than RACT already in place on the unit, then excess reductions may only be counted from below that emission rate.

6 NYCRR 227-2.6 (c)  
This condition specifies that a stack test must be performed to determine the emission of oxides of Nitrogen from the Combustion Turbines at the facility.

6 NYCRR 242-1.5  
This regulation requires that the facility hold enough carbon dioxide allowances in their carbon dioxide budget at least equal to the amount of carbon dioxide emitted from the facility each year.

6 NYCRR 243-1.6 (a)  
This condition requires the facility to acknowledge that they are subject to this CAIR regulation and provide owner and contact information. It also requires them to update this information as it changes or provide supplemental information at the Departments request.

6 NYCRR 243-1.6 (b)  
This condition obligates the owners and operators of the facility to comply with the monitoring and reporting requirements of the CAIR regulations.
This citation explains the general provisions of the Clean Air Interstate Rule (CAIR) NOx Ozone Season Trading Program. This ozone season NOx cap and trade program runs from May 1 through September 30 each year, starting in 2009. Each source shall hold a tonnage equivalent in CAIR NOx Ozone Season allowances that is not less than the total tons of NOx emissions for the ozone season.

This citation for the Clean Air Interstate Rule (CAIR) NOx Ozone Season Trading Program explains some of the penalties that can be imposed on a CAIR NOx Ozone Season source that does not surrender enough CAIR NOx Ozone Season allowances to cover their NOx Ozone Season emissions.

This citation for the Clean Air Interstate Rule (CAIR) NOx Ozone Season Trading Program requires that all reports be submitted as required by this program, and that copies of all records and submissions made for this program be kept on site for at least five years.

This citation of the Clean Air Interstate Rule (CAIR) NOx Ozone Season Trading Program explains that an CAIR NOx Ozone Season designated representative must be selected to submit, sign and certify each submission on behalf of the source for the this program.

This condition describes the required elements of the "Certificate of Representation" for the CAIR program and the certifying language required with submissions to the Department.

This citation of the Clean Air Interstate Rule (CAIR) NOx Ozone Season Trading Program explains that CAIR NOx Ozone Season Trading Program sources must install, certify and operate monitoring systems that meet the monitoring, recordkeeping, and reporting requirements in Subpart 6 NYCRR 243-8 and in Subpart H of 40 CFR Part 75.

This citation of the Clean Air Interstate Rule (CAIR) NOx Ozone Season Trading Program explains what to do when an emission monitoring system fails quality assurance, quality control, or data validation requirements.

This citation of the Clean Air Interstate Rule (CAIR) NOx Ozone Season Trading Program explains the what requirements the quarterly reports must meet.

This citation of the Clean Air Interstate Rule (CAIR) NOx Ozone Season Trading Program explains the compliance certification requirements the source must follow for each quarterly report.

This regulation requires the owner or operator to submit an episode action plan to the Department in accordance with the requirements of 6NYCRR Part 207. The plan must 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.
plan when an air pollution episode is in effect.

6 NYCRR Subpart 201-7
This regulation sets forth an emission cap that cannot be exceeded by the facility. In this permit that cap is 160.7 TPY of PM 2.5.

This Subpart applies to modifications to existing major facilities in non-attainment areas and attainment areas of the State within the OTR.

6 NYCRR Subpart 244-1
This subpart explains the general provisions of the Clean Air Interstate Rule (CAIR) Nitrogen Oxide (NOx) Annual Trading Program. The control period for this annual NOx cap and trade program runs from January 1 to December 31 each year, starting in 2009. Each source shall hold a tonnage equivalent in CAIR NOx allowances that is not less than the total tons of NOx emissions for the control period.

6 NYCRR Subpart 244-2
Each Clean Air Interstate Rule (CAIR) NOx source shall have one CAIR designated representative and may have one alternate representative. Each submission for the CAIR NOx Annual Trading Program shall be submitted, signed, and certified by the CAIR designated representative or the alternate representative.

6 NYCRR Subpart 244-8
The owners, operators, and Clean Air Interstate Rule (CAIR) designated representative of a CAIR NOx unit shall comply with the monitoring, recordkeeping, and reporting requirements as provided in Subpart 6 NYCRR Part 244-8 and in 40 CFR Part 75, Subparts F and G. A certified NOx emission monitoring system must be used to measure NOx emissions. NOx emission reports must be certified and submitted quarterly.

6 NYCRR Subpart 245-1
This subpart explains the general provisions of the Clean Air Interstate Rule (CAIR) sulfur dioxide (SO2) Trading Program. The control period for this annual SO2 cap and trade program runs from January 1 to December 31, starting in the year 2010. Each source shall hold a tonnage equivalent in CAIR SO2 allowances that is not less than the total tons of SO2 emissions for the control period.

6 NYCRR Subpart 245-2
Each Clean Air Interstate Rule (CAIR) SO2 source shall have one CAIR designated representative and may have one alternate representative. Each submission for the CAIR SO2 Trading Program shall be submitted, signed, and certified by the CAIR designated representative or the alternate representative.

6 NYCRR Subpart 245-8
Non Applicability Analysis
List of non-applicable rules and regulations:

<table>
<thead>
<tr>
<th>Location</th>
<th>Regulation</th>
<th>Short Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FACILITY</td>
<td>6 NYCRR 231-3.2</td>
<td>Summary of applicability</td>
</tr>
</tbody>
</table>

Reason: The facility is replacing the existing simple cycle combustion turbines with newer larger more efficient combined cycle combustion turbines. The facility is using the reductions from the shutdown of the existing combustion turbines to net out of Part 231 applicability. Therefore, the project will not be subject to the requirements of new source review under Part 231.

NOTE: Non-applicability determinations are cited as a permit condition under 6 NYCRR Part 201-6.5(g). This information is optional and provided only if the applicant is seeking to obtain formal confirmation, within an issued Title V permit, that specified activities are not subject to the listed federal applicable or state only requirement. The applicant is seeking to obtain verification that a requirement does not apply for the stated reason(s) and the Department has agreed to include the non-applicability determination in the issued Title V permit which in turn provides a shield against any potential enforcement action.

Compliance Certification
Summary of monitoring activities at ASTORIA GAS TURBINE POWER:

<table>
<thead>
<tr>
<th>Location</th>
<th>Cond No.</th>
<th>Type of Monitoring</th>
</tr>
</thead>
<tbody>
<tr>
<td>FACILITY</td>
<td>1-32</td>
<td>record keeping/maintenance procedures</td>
</tr>
<tr>
<td>U-00001</td>
<td>1-49</td>
<td>record keeping/maintenance procedures</td>
</tr>
<tr>
<td>A-00005/-/GTD</td>
<td>58</td>
<td>record keeping/maintenance procedures</td>
</tr>
<tr>
<td>FACILITY</td>
<td>1-3</td>
<td>work practice involving specific operations</td>
</tr>
<tr>
<td>FACILITY</td>
<td>1-4</td>
<td>work practice involving specific operations</td>
</tr>
<tr>
<td>FACILITY</td>
<td>1-5</td>
<td>intermittent emission testing</td>
</tr>
<tr>
<td>FACILITY</td>
<td>1-6</td>
<td>intermittent emission testing</td>
</tr>
<tr>
<td>FACILITY</td>
<td>1-7</td>
<td>continuous emission monitoring (cem)</td>
</tr>
<tr>
<td>FACILITY</td>
<td>1-8</td>
<td>continuous emission monitoring (cem)</td>
</tr>
<tr>
<td>FACILITY</td>
<td>1-9</td>
<td>record keeping/maintenance procedures</td>
</tr>
<tr>
<td>FACILITY</td>
<td>1-10</td>
<td>record keeping/maintenance procedures</td>
</tr>
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<td>FACILITY</td>
<td>1-11</td>
<td>continuous emission monitoring (cem)</td>
</tr>
<tr>
<td>FACILITY</td>
<td>1-12</td>
<td>continuous emission monitoring (cem)</td>
</tr>
<tr>
<td>FACILITY</td>
<td>1-13</td>
<td>work practice involving specific operations</td>
</tr>
<tr>
<td>FACILITY</td>
<td>1-14</td>
<td>monitoring of process or control device parameters as surrogate</td>
</tr>
<tr>
<td>FACILITY</td>
<td>1-15</td>
<td>continuous emission monitoring (cem)</td>
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<tr>
<td>FACILITY</td>
<td>1-16</td>
<td>work practice involving specific operations</td>
</tr>
<tr>
<td>FACILITY</td>
<td>1-17</td>
<td>continuous emission monitoring (cem)</td>
</tr>
<tr>
<td>FACILITY</td>
<td>1-18</td>
<td>continuous emission monitoring (cem)</td>
</tr>
</tbody>
</table>
Basis for Monitoring

Monitoring conditions from REN 1 MOD 0

Condition # 58 (6NYCRR 200.6) applies to the turbines at the facility when they are fired with oil. This condition limits the daily and annual hourly operation of each turbine and requires the facility to submit quarterly records to the NYSDEC to verify compliance with the operational limits.

Condition # 5 (6 NYCRR 201-6.5(c)(3)(ii)) is a facility-wide condition that applies to monitoring conditions in all Title V Permits. All facilities that are subject to the Title V requirements must submit reports of any required monitoring to the NYSDEC every six months.

Condition # 6 (6 NYCRR 201-6.5(e)) is a facility-wide record keeping requirement that applies to all Title V facilities. These facilities must submit an annual compliance certification to the NYSDEC and the USEPA.

Condition # 7 (6 NYCRR 202-2.1) is a requirement for all Title V facilities. These facilities must submit an annual emission statement by April 15th of each year.

Condition # 26 (6NYCRR 204-4.1) This condition covers the compliance certification report requirements for the NOx Budget Program.

Condition # 30 (6NYCRR 204-8.2) This condition covers the procedures for initially certifying and recertifying the continuous emission monitoring systems to meet the requirements of the NOx Budget Program.

Condition # 32 (6NYCRR 204-8.4) This condition lists the addresses where monitoring plans and their modifications, compliance certifications, recertifications, quarterly QA/QC reports and petitions for alternative monitoring are to be sent.
Condition # 33 (6NYCRR 207): This regulation requires the owner or operator to submit an episode action plan to the Department in accordance with the requirements of 6NYCRR Part 207. The plan must 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 # 34 (6NYCRR 225-1.7(c)) This condition requires that measurements are made daily of the rate of each fuel burned, that the gross heat content and ash content of each fuel burned are measured at least once per week, and that the average daily electrical output and hourly generation rate are determined.

Condition # 59 (6NYCRR 225.1(a)(3)) This condition states that the sulfur content of the distillate oil burned in the turbines at the facility can not exceed 0.04 percent by weight.

Condition # 36 (6NYCRR 227-1.3(a)) This condition specifies opacity limits for the turbines at the facility and the compliance monitoring procedures.

Condition # 37 (6NYCRR 227-2.5(b)) This condition specifies that NRG Energy Inc.’s system-wide averaging of NOx emissions from its facilities in New York State (including the Astoria Gas Turbine Power facility) must be performed in accordance with its NOx RACT System-wide Compliance Plan, dated February 25, 2000, approved by the Department on August 30, 2000. Records must be kept in accordance with the Plan and compliance demonstrated on a 24 hour basis during the Ozone season and on a 30 day rolling average for the rest of the year. The system-wide average shall consist of a weighted average allowable emission rate based upon the weighted average of actual emissions from units that are operating.

Condition # 57 (6NYCRR 227-2.6(c)) This condition states that a stack test must be performed on the turbines at the facility to determine the emissions of oxides of nitrogen. Certification for the Pre-2003 NOx Budget Trading Program.

Condition # 60 (6NYCRR 227.2(b)(1)) This condition states that the particulate emissions from the turbines at the facility can not exceed 0.10 pounds per million Btu when firing oil. A stack test must be performed to verify compliance with this limit.

Conditions # 50, 51, 1-25, 1-27 (6NYCRR 244-8) and # 54 (6NYCRR 245-8): These are the monitoring and reporting conditions for CAIR NOx Allowances and CAIR SO2 Trading program.

Monitoring conditions from REN 1 MOD 1

Conditions # 1-8, 1-11, 1-15, 1-18 (6NYCRR 201-6): These conditions contain the NOx emission limits for steady state operation of the combined cycle GE Frame 7FA combustion turbines.

Conditions # 1-5, 1-6 (6NYCRR 201-6): These conditions contain the PM 2.5 emission limits for operation of the combined cycle GE Frame 7FA combustion turbines.

Conditions # 1-12, 1-14, 1-17 (6NYCRR 201-6): These conditions contain the start-up emission limits for NOx, CO, and the duration of start-up limitation for periods of start-up for the combined cycle GE Frame 7FA combustion turbines.
Conditions # 1-13, 1-16 (6NYCRR 201-6): These conditions contain the distillates oil usage limits for the combined cycle GE Frame 7FA combustion turbines.

Conditions # 1-3, 1-4 (6NYCRR 201-6): These conditions contain the operating hours limits for the combined cycle GE Frame 7FA combustion turbines.

Condition # 1-7 (6NYCRR 201-6): This condition contains the NH3 emission limit for operation of the combined cycle GE Frame 7FA combustion turbines.

Condition # 1-10 (6NYCRR 201-6): This condition contains the fuel operating scenario restrictions of the combined cycle GE Frame 7FA combustion turbines.

Condition # 1-9 (6NYCRR 201-6): This condition contains the notification of shutdown requirements for the existing simple cycle combustion turbines.

Condition # 1-47 (6NYCRR 201-6): This condition contains the sulfur in fuel limitation for the oil fired in the combined cycle GE Frame 7FA combustion turbines.

Conditions # 1-53, 1-54, 1-55 (6NYCRR 242-1.5): These are the monitoring, reporting, and excess emissions conditions for the CO2 Budget Trading program.

Condition # 1-31 (40 CFR 60.7(c)): This is the NSPS excess emissions reporting condition.

Condition # 1-48 (40 CFR 60.4365(a)): This is the exemption from sulfur in fuel monitoring condition for NSPS Subpart KKKK Stationary Gas Turbines.