

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6301-00185/00009 Renewal Number: 1



05/15/2007

Facility Identification Data

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

Owner/Firm

Name: ASTORIA GENERATING COMPANY LP
Address: 18-01 20TH AVE
LONG ISLAND CITY, NY 11105-4271, USA
Owner Classification: Corporation/Partnership

Permit Contacts

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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.

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Summary Description of Proposed Project

Application for renewal of Air Title V Facility.

Attainment Status

ASTORIA GENERATING STATION 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.)

Criteria Pollutant	Attainment Status
Particulate Matter (PM)	ATTAINMENT
Particulate Matter < 10µ in diameter (PM10)	ATTAINMENT
Sulfur Dioxide (SO2)	ATTAINMENT
Ozone*	SEVERE NON-ATTAINMENT
Oxides of Nitrogen (NOx)**	ATTAINMENT
Carbon Monoxide (CO)	ATTAINMENT

* 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

This is a Title V permit renewal for an existing electric generation facility. Astoria Generating Station, located at 18-01 20th Avenue in Astoria, New York, is an existing electric generating facility. The facility operates four very large boilers (Boilers 20, 30, 40 & 50), rated at 1,795, 3,984, 4,074 and 4,094 MM BTU/hr, respectively; and one simple-cycle combustion turbine, rated at 243 MM BTU/hr. All the boilers combust residual oil and natural gas, except the boiler that is rated at 1,795 MM BTU/hr (Boiler 20), which combusts only natural gas. Steam from the boilers is used to drive four steam turbines and generate electricity. The combustion turbine combusts only natural gas. The Industrial Classification Code (SIC) for this facility is 4911 - Electric Services.

Astoria Generating Station consists of five emission units: A-S0001, A-S0002, A-S0003, A-S0004 and A-S0005. Below is a description of these five emission units:

Emission Unit A-S0001 consists of one very large (1,795 MM Btu/hr) Babcock & Wilcox boiler, Boiler 20 (Emission Source 00020), which combusts only natural gas (Process NG3). A very large boiler is defined as a boiler with a maximum heat input capacity greater than 250 million Btu per hour. Boiler 20

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was constructed and began operating on 1/1/1953 in the Boiler House, was removed from operation on 12/31/1993, and was reactivated on 9/1/2000. Boiler 20 is a single furnace with only one stack. Emissions from Boiler 20 are exhausted through one stack, which is identified as Emission Point 00021. For Boiler 20, the emission cap is as follows: 24.5 tpy of Particulates, 14.5 tpy of PM-10, 39.5 tpy of Sulfur Dioxide, 98 tpy of Carbon Monoxide, 110 tpy of NO_x, 24 tpy of VOC, 0.0003 tpy of Beryllium, and 0.05 tpy of Mercury.

Emission Unit A-S0002 consists of one very large (3,984 MM BTU/hr) Babcock & Wilcox boiler, Boiler 30 (Emission Source 00030), which has the capability to burn residual oil (Process RO1) and natural gas (Process NG1) and can fire these fuels in various combinations. A very large boiler is defined as a boiler with a maximum heat input capacity greater than 250 million Btu per hour. Boiler 30 was constructed and began operating on 9/1/1958 in the Boiler House. Emissions from Boiler 30 are exhausted through two different stacks, which are identified as Emission Points 00031 & 00032. Boiler 30 uses Flue Gas Recirculation (FGR) to control NO_x emissions. The NO_x emissions from Boiler 30 are limited to 1,764 tons/yr and the CO emissions from Boiler 30 are limited to 1,435 tons/yr.

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

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

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

The facility's emissions exceed the major source pollutant thresholds listed in 6 NYCRR Subpart 201-6 and, as such, the facility is subject to the provisions of Title V. The facility's emissions of NO_x will be monitored continuously. In addition, the NO_x emissions will be averaged from the Astoria, Gowanus, and Narrows Generating Stations, which are all owned by the applicant, according to system-wide averaging plan approved by the Department, to verify compliance with the provisions of 6 NYCRR Subpart 227-2.

This facility is required to comply with the emission cap of 6 NYCRR 201-7 and cannot be exceeded by the facility. Astoria Generating Station's facility-wide SO₂ emissions shall not exceed the following limits:

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- (a) 3,120 pounds per hour (based on a 3-hour average), and
- (b) 2,040 pounds per hour (based on a 24-hour average), and
- (c) 17,870,400 pounds per year (8,935.2 tpy).

The facility operates other sources which are considered exempt from permitting in accordance with 6 NYCRR 201-3.2(c), including four internal combustion engines (<225 bhp mechanical power), five emergency diesel generators (<500 hours per year each), four distillate and residual fuel oil storage tanks (<300,000 bbls capacity), ten storage tanks (<10,000 gallons capacity), four horizontal petroleum storage tanks and one venting and exhaust system for laboratory operations.

Permit Structure and Description of Operations

The Title V permit for ASTORIA GENERATING STATION 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 GENERATING STATION is defined by the following emission unit(s):
Emission unit AS0001 - Emission Unit A-S0001 consists of one very large (1,795 MM Btu/hr) Babcock & Wilcox boiler, Boiler 20 (Emission Source 00020), which combusts only natural gas (Process NG3). A very large boiler is defined as a boiler with a maximum heat input capacity greater than 250 million Btu per hour. Boiler 20 was constructed and began operating on 1/1/1953 in the Boiler House, was removed from operation on 12/31/1993, and was reactivated on 9/1/2000. Boiler 20 is a single furnace with only one stack. Emissions from Boiler 20 are exhausted through one stack, which is identified as Emission Point 00021.

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

Emission unit AS0001 is associated with the following emission points (EP):
00021

It is further defined by the following process(es):

Process: NG3 is located at 1-4, Building BOILERHS - Process NG3 consists of one face fired very large (1,795 MM Btu/hr) Babcock & Wilcox boiler, Boiler 20 (Emission Source 00020) in Emission Unit A-S0001 burning only natural gas. A very large boiler is defined as a boiler with a maximum heat input capacity greater than 250 million Btu per hour. Boiler 20 was constructed and began operating on 1/1/1953 in the Boiler House, was removed from operation on 12/31/1993, and was reactivated on 9/1/2000. Boiler 20 is a single furnace with only one stack. Emissions from Boiler 20 are exhausted through one stack, which is identified as Emission Point 00021.

Boiler 20 has the following emission limits:

NOx - 110 tpy
VOC - 24 tpy
CO - 98 tpy
PM-10 - 14.5 tpy
Particulates - 24.5 tpy
SO2 - 39.5 tpy
Beryllium - 0.0003 tpy
Mercury - 0.05 tpy

Emission unit AS0002 - Emission Unit A-S0002 consists of one very large (3,984 MM Btu/hr) Babcock & Wilcox boiler, Boiler 30 (Emission Source 00030), which has the capability to burn residual oil (Process RO1) and natural gas (Process NG1) and can fire these fuels in various combinations. A very large boiler is defined as a boiler with a maximum heat input capacity greater than 250 million Btu per hour. Boiler 30 was constructed and began operating on 9/1/1958 in the Boiler House. Boiler 30 is twin furnace boiler with two stacks/emission points. Emissions from Boiler 30 are exhausted through two different stacks, which are identified as Emission Points 00031 & 00032. Boiler 30 uses Flue Gas Recirculation (FGR) to control NOx emissions.

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

Emission unit AS0002 is associated with the following emission points (EP):
00031, 00032

It is further defined by the following process(es):

Process: NG1 is located at 1-4, Building BOILERHS - Process NG1 is the combustion of natural gas in Boiler 30 (Emission Source 00030 in Emission Unit A-S0002. This very large boiler is one face fired Babcock & Wilcox boiler and is rated at 3,984 million BTU/hr and covers the combustion of natural gas in this boiler. A very large boiler is defined as a boiler with a maximum heat input capacity greater than 250 million Btu per hour.

Boiler 30 (Emission Source 00030) has the capability to burn residual oil (Process RO1) and natural gas

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

Process: RO1 is located at 1-4, Building BOILERHS - Process RO1 is the combustion of residual oil in Boiler 30 (Emission Source 00030 in Emission Unit A-S0002. This very large boiler is one face fired Babcock & Wilcox boiler and is rated at 3,984 million BTU/hr and covers the combustion of natural gas in this boiler. A very large boiler is defined as a boiler with a maximum heat input capacity greater than 250 million Btu per hour.

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

Emission unit AS0003 - Emission Unit A-S0003 consists of one very large (4,074 MM Btu/hr) Combustion Engineering, Boiler 40 (Emission Source 00040), which has the capability to burn residual oil (Process RO2) and natural gas (Process NG2) and can fire these fuels in various combinations. A very large boiler is defined as a boiler with a maximum heat input capacity greater than 250 million Btu per hour. Boiler 40 was constructed and began operating on 9/1/1958 in the Boiler House. Boiler 40 is twin furnace boiler with two stacks/emission points. Emissions from Boiler 40 are exhausted through two different stacks, which are identified as Emission Points 00041 & 00042.

Emission unit AS0003 is associated with the following emission points (EP): 00041, 00042

It is further defined by the following process(es):

Process: NG2 is located at 1-4, Building BOILERHS - Process NG2 is the combustion of natural gas in Boiler 40 (Emission Source 00040 in Emission Unit A-S0003. This very large boiler is one tangentially fired Combustion Engineering boiler and is rated at 4,074 million BTU/hr and covers the combustion of natural gas in this boiler. A very large boiler is defined as a boiler with a maximum heat input capacity greater than 250 million Btu per hour.

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

Process: RO2 is located at 1-4, Building BOILERHS - Process RO2 is the combustion of residual oil in Boiler 40 (Emission Source 00040 in Emission Unit A-S0003. This very large boiler is one tangentially fired Combustion Engineering boiler and is rated at 4,074 million BTU/hr and covers the combustion of natural gas in this boiler. A very large boiler is defined as a boiler with a maximum heat input capacity greater than 250 million Btu per hour.

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

Emission unit AS0004 - Emission Unit A-S0004 consists of one very large (4,094 MM Btu/hr) Combustion Engineering , Boiler 50 (Emission Source 00050), which has the capability to burn residual oil (Process RO3) and natural gas (Process NG4) and can fire these fuels in various combinations. A very large boiler is defined as a boiler with a maximum heat input capacity greater than 250 million Btu per hour. Boiler 50 was constructed and began operating on 5/1/1962 in the Boiler House. Boiler 50 is twin furnace boiler with two stacks/emission points. Emissions from Boiler 50 are exhausted through two different stacks, which are identified as Emission Points 00051 & 00052.

Emission unit AS0004 is associated with the following emission points (EP):
00051, 00052

It is further defined by the following process(es):

Process: NG4 is located at 1-4, Building BOILERHS - Process NG4 is the combustion of natural gas in Boiler 50 (Emission Source 00050 in Emission Unit A-S0004. This very large boiler is one tangentially fired Combustion Engineering boiler and is rated at 4,094 million BTU/hr and covers the combustion of natural gas in this boiler. A very large boiler is defined as a boiler with a maximum heat input capacity greater than 250 million Btu per hour.

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

Process: RO3 is located at 1-4, Building BOILERHS - Process RO3 is the combustion of residual oil in Boiler 50 (Emission Source 00050 in Emission Unit A-S0004. This very large boiler is one tangentially fired Combustion Engineering boiler and is rated at 4,094 million BTU/hr and covers the combustion of natural gas in this boiler. A very large boiler is defined as a boiler with a maximum heat input capacity greater than 250 million Btu per hour.

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

Emission unit AS0005 - Emission Unit A-S0005 consists of one 243 MM Btu/hr General Electric Model 5000L simple cycle combustion turbine, GT001 (Emission Source GT001), utilized to generate electricity. The combustion turbine burns only natural gas (Process GTN) and has a diesel starter engine. Combustion Turbine GT001 was constructed and began operating on 7/1/1967 in the Gas Turbine Facility (GTFAC). Emissions from GT001 are exhausted through one stack, which is identified as Emission Point GT001.

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Emission unit AS0005 is associated with the following emission points (EP):
GT001

It is further defined by the following process(es):

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

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

Title V/Major Source Status

ASTORIA GENERATING STATION is subject to Title V requirements. This determination is based on the following information:

The Astoria Generating Station (AGS) is subject to Title V requirements. This determination is based on the following information:

The Astoria generating Station is a major facility because the potential emissions of particulates, sulfur dioxide, oxides of nitrogen, carbon monoxide, and volatile organic compounds are greater than the major source thresholds (100 tons/year for both particulates and sulfur dioxide, 25 tons/year for both oxides of nitrogen and volatile organic compounds, and 100 tons/year for carbon monoxide).

Program Applicability

The following chart summarizes the applicability of ASTORIA GENERATING STATION with regards to the principal air pollution regulatory programs:

Regulatory Program	Applicability
PSD	NO
NSR (non-attainment)	YES
NESHAP (40 CFR Part 61)	NO
NESHAP (MACT - 40 CFR Part 63)	NO
NSPS	NO
TITLE IV	YES
TITLE V	YES

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TITLE VI	NO
RACT	YES
SIP	YES

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

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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 out of compliance with specific requirements (see attached compliance schedule)
Compliance Schedule:

Location	Short Description	Regulation
Facility/EU/EP/Process/ES FACILITY	Smoke Emission Limitations.	6NYCRR 227-1.3

Compliance Discussion:

ASTORIA GENERATING STATION is in violations of the following requirement(s): Condition 39 for 6 NYCRR 227-1.3 for Record Keeping/Maintenance Procedures for Particulates was placed in the permit because the facility has Consent Order 1999043028 for violating the opacity requirement for Boilers 20, 30, 40 & 50. This condition requires the facility to follow opacity related equipment and preventive maintenance elements in order to prevent another opacity violation. As a result, the facility is required to inspect the burners, the ID fans, the FD fans, the regulators, the control system , the instrumentation, and the trips and alarms. of each of Boilers 20, 30, 40 & 50. In addition, the facility is required to submit quarterly opacity reports every Frbruary 15, May 15, August 15 and November 15 of each year that includes the following:

1. Opacity Incident Reporting
2. Opacity reporting Compliance Audits
3. Awareness, Communications & Training
4. Preventive Maintenance
5. Root cause analysis and corrective action

SIC Codes

SIC or Standard Industrial Classification code is an industrial code developed by the

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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.

SIC Code	Description
4911	ELECTRIC SERVICES

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
1-01-006-01	EXTERNAL COMBUSTION BOILERS - ELECTRIC GENERATION ELECTRIC UTILITY BOILER - NATURAL GAS Boilers > 100 MBtu/Hr except Tangential
1-01-006-04	EXTERNAL COMBUSTION BOILERS - ELECTRIC GENERATION ELECTRIC UTILITY BOILER - NATURAL GAS Tangentially Fired Units
1-01-004-01	EXTERNAL COMBUSTION BOILERS - ELECTRIC GENERATION ELECTRIC UTILITY BOILER - RESIDUAL OIL Grade 6 Oil: Normal Firing
1-01-004-04	EXTERNAL COMBUSTION BOILERS - ELECTRIC GENERATION ELECTRIC UTILITY BOILER - RESIDUAL OIL Grade 6 Oil: Tangential Firing
2-01-002-01	INTERNAL COMBUSTION ENGINES - ELECTRIC GENERATION ELECTRIC UTILITY INTERNAL COMBUSTION ENGINE - NATURAL GAS Turbine

Facility Emissions Summary

In the following table, the CAS No. or Chemical Abstract Series 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

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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. 0NY100-00-0. 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.

Cas No.	Contaminant Name	PTE	
		lbs/yr	Range
000120-12-7	ANTHRACENE (HAP)	> 0	but < 10 tpy
007440-36-0	ANTIMONY (HAP)	> 0	but < 10 tpy
007440-38-2	ARSENIC (HAP)	> 0	but < 10 tpy
007440-39-3	BARIUM	>= 10	tpy but < 25 tpy
000071-43-2	BENZENE (HAP)	> 0	but < 10 tpy
000095-47-6	BENZENE, 1, 2-DIMETHYL (HAP)	> 0	but < 10 tpy
007440-41-7	BERYLLIUM (HAP)	> 0	but < 10 tpy
007440-43-9	CADMIUM (HAP)	> 0	but < 10 tpy
000124-38-9	CARBON DIOXIDE	>= 250	tpy
000630-08-0	CARBON MONOXIDE	>= 250	tpy
007440-47-3	CHROMIUM (HAP)	> 0	but < 10 tpy
018540-29-9	CHROMIUM (VI) (HAP)	> 0	but < 10 tpy
007440-48-4	COBALT (HAP)	> 0	but < 10 tpy
007440-50-8	COPPER	> 0	but < 2.5 tpy
000071-55-6	ETHANE, 1, 1, 1-TRICHLORO (HAP)	> 0	but < 10 tpy
000100-41-4	ETHYLBENZENE (HAP)	> 0	but < 10 tpy
016984-48-8	FLUORIDE	>= 10	tpy but < 25 tpy
000050-00-0	FORMALDEHYDE (HAP)	>= 10	tpy
0NY100-00-0	HAP	> 0	but < 2.5 tpy
007439-92-1	LEAD (HAP)	> 0	but < 10 tpy
007439-96-5	MANGANESE (HAP)	> 0	but < 10 tpy
007439-97-6	MERCURY (HAP)	> 0	but < 10 tpy
007439-98-7	MOLYBDENUM	>= 2.5	tpy but < 10 tpy
000091-20-3	NAPHTHALENE (HAP)	> 0	but < 10 tpy
007440-02-0	NICKEL METAL AND INSOLUBLE COMPOUNDS (HAP)	>= 10	tpy
0NY210-00-0	OXIDES OF NITROGEN	>= 250	tpy
0NY075-00-0	PARTICULATES	>= 250	tpy
007723-14-0	PHOSPHORUS (YELLOW) (HAP)	> 0	but < 10 tpy
0NY075-00-5	PM-10	>= 250	tpy
001336-36-3	POLYCHLORINATED BIPHENYL (HAP)	> 0	but < 10 tpy
007782-49-2	SELENIUM (HAP)	> 0	but < 10 tpy
007446-09-5	SULFUR DIOXIDE	17870400	
000108-88-3	TOLUENE (HAP)	> 0	but < 10 tpy
007440-62-2	VANADIUM	>= 10	tpy but < 25 tpy
0NY998-00-0	VOC	>= 250	tpy
001330-20-7	XYLENE, M, O & P MIXT. (HAP)	> 0	but < 10 tpy
007440-66-6	ZINC	>= 10	tpy but < 25 tpy

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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.

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(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 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

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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 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 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

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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.

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

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

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

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

Item L: Permit Exclusion - ECL 19-0305

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

Item M: Federally Enforceable Requirements - 40 CFR 70.6(b)

All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being

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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

Location Facility/EU/EP/Process/ES	Regulation	Short Description	Condition
FACILITY	ECL 19-0301	Powers and Duties of the Department with respect to air pollution control	81
A-S0001/-/NG3/00020	40CFR 52-A.21	Prevention of Significant Deterioration	55, 56, 57, 58, 59
FACILITY	40CFR 68	Chemical accident prevention provisions	21
FACILITY	40CFR 72	Permits regulation	46
FACILITY	40CFR 75	Continuous emission monitoring	47
FACILITY	40CFR 82-F	Protection of Stratospheric Ozone - recycling and emissions reduction	22
FACILITY	6NYCRR 200.6	Acceptable ambient air quality.	1, 23, 24, 25
FACILITY	6NYCRR 200.7	Maintenance of equipment.	10
FACILITY	6NYCRR 201-1.4	Unavoidable noncompliance and violations	82
FACILITY	6NYCRR 201-1.7	Recycling and Salvage	11
FACILITY	6NYCRR 201-1.8	Prohibition of	12

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		reintroduction of collected contaminants to the air	
FACILITY	6NYCRR 201-3.2(a)	Exempt Activities - Proof of eligibility	13
FACILITY	6NYCRR 201-3.3(a)	Trivial Activities - proof of eligibility	14
FACILITY	6NYCRR 201-6	Title V Permits and the Associated Permit Conditions	26, 48, 49
FACILITY	6NYCRR 201-6.5(a)(4)	General conditions	15
FACILITY	6NYCRR 201-6.5(a)(7)	General conditions	
Fees 2			
FACILITY	6NYCRR 201-6.5(a)(8)	General conditions	16
FACILITY	6NYCRR 201-6.5(c)	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring	3
FACILITY	6NYCRR 201-6.5(c)(2)	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring	4
FACILITY	6NYCRR 201-6.5(c)(3)(ii)	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring	5
FACILITY	6NYCRR 201-6.5(d)(5)	Compliance schedules	17
FACILITY	6NYCRR 201-6.5(e)	Compliance Certification	6
FACILITY	6NYCRR 201-6.5(f)(6)	Off Permit Changes	18
FACILITY	6NYCRR 201-7	Federally Enforceable Emissions Caps	27, 28, 29, 50
A-S0001/-/NG3/00020	6NYCRR 201-7	Federally Enforceable Emissions Caps	55, 56, 57, 58, 59
FACILITY	6NYCRR 202-1.1	Required emissions tests.	19
FACILITY	6NYCRR 202-2.1	Emission Statements - Applicability	7
FACILITY	6NYCRR 202-2.5	Emission Statements - record keeping requirements.	8
FACILITY	6NYCRR 204-2.1	Authorization and Responsibilities of the NOx Authorized Account Representative	30
FACILITY	6NYCRR 204-4.1	Compliance Certification Report	31
FACILITY	6NYCRR 204-7.1	Submission of NOx Allowance Transfers	32
FACILITY	6NYCRR 204-8.1	General Requirements	33
FACILITY	6NYCRR 204-8.2	Initial Certification and Recertification Procedures	34, 35
FACILITY	6NYCRR 204-8.3	Out of Control Periods	36
FACILITY	6NYCRR 204-8.4	Notifications	37
FACILITY	6NYCRR 204-8.7	Additional Requirements to Provide Heat Input Data for Allocations Purposes	38
FACILITY	6NYCRR 207	Control Measures for an Air Pollution Episode	39
FACILITY	6NYCRR 211.2	General Prohibitions - air pollution prohibited.	83

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FACILITY	6NYCRR 211.3	General Prohibitions - visible emissions limited	20
FACILITY	6NYCRR 215	Open Fires	9
FACILITY	6NYCRR 225-1.2(a)(2)	Sulfur in Fuel Limitations Post 12/31/87.	40
FACILITY	6NYCRR 225-1.7(c)	Emission and fuel monitoring.	41
FACILITY	6NYCRR 225-1.8	Reports, sampling and analysis.	42
A-S0002/-/RO1/00030	6NYCRR 227.2(b)(1)	Particulate emissions.	67
A-S0003/-/RO2/00040	6NYCRR 227.2(b)(1)	Particulate emissions.	71
A-S0004/-/RO3/00050	6NYCRR 227.2(b)(1)	Particulate emissions.	76
FACILITY	6NYCRR 227-1.3	Smoke Emission Limitations.	43, 44
A-S0002/00031	6NYCRR 227-1.3	Smoke Emission Limitations.	68
A-S0002/00032	6NYCRR 227-1.3	Smoke Emission Limitations.	69
A-S0003/00041	6NYCRR 227-1.3	Smoke Emission Limitations.	72
A-S0003/00042	6NYCRR 227-1.3	Smoke Emission Limitations.	73
A-S0004/00051	6NYCRR 227-1.3	Smoke Emission Limitations.	77
A-S0004/00052	6NYCRR 227-1.3	Smoke Emission Limitations.	78
A-S0001/00021	6NYCRR 227-1.3(a)	Smoke Emission Limitations.	62
FACILITY	6NYCRR 227-2.5(b)	System-wide averaging option.	45
A-S0005	6NYCRR 227-2.6	Testing, monitoring, and reporting requirements	79, 80
A-S0001	6NYCRR 227-2.6(a)(1)	Testing, monitoring, and reporting requirements for very large boilers.	51
A-S0002	6NYCRR 227-2.6(a)(1)	Testing, monitoring, and reporting requirements for very large boilers.	63
A-S0003	6NYCRR 227-2.6(a)(1)	Testing, monitoring, and reporting requirements for very large boilers.	70
A-S0004	6NYCRR 227-2.6(a)(1)	Testing, monitoring, and reporting requirements for very large boilers.	74
FACILITY	6NYCRR 231-2.3(b)	Prohibitions	28, 29
A-S0001/-/NG3/00020	6NYCRR 231-2.4(a)(1)	Permit Requirements	60, 61
A-S0001	6NYCRR 231-2.6	Emission reduction credits	52, 53, 54
A-S0002	6NYCRR 231-2.6	Emission reduction credits	64, 65, 66
A-S0004	6NYCRR 231-2.6	Emission reduction credits	75

Applicability Discussion:

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

ECL 19-301.

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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.

6NYCRR Part 200-.6

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

6NYCRR Part 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

6NYCRR Part 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.

6NYCRR Part 201-1.7

Requires the recycle and salvage of collected air contaminants where practical

6NYCRR Part 201-1.8

Prohibits the reintroduction of collected air contaminants to the outside air

6NYCRR Part 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.

6NYCRR Part 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

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the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

6NYCRR Part 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.

6NYCRR 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.

6NYCRR 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.

6NYCRR 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.

6NYCRR Part 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.

6NYCRR Part 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

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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.

6NYCRR Part 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.

6NYCRR 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.

6NYCRR Part 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.

6NYCRR 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.

6NYCRR Part 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.

6NYCRR Part 202-2.1

Requires that emission statements shall be submitted on or before April 15th each year for emissions of the previous calendar year.

6NYCRR Part 202-2.5

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.

6NYCRR Part 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

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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 Part 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

Prohibits open fires at industrial and commercial sites.

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.

40 CFR Part 82, Subpart F

Subpart F requires the reduction of emissions of class I and class II refrigerants to the lowest achievable level during the service, maintenance, repair, and disposal of appliances in accordance with section 608 of the Clean Air Act Amendments of 1990. This subpart applies to any person servicing, maintaining, or repairing appliances except for motor vehicle air conditioners. It also applies to persons disposing of appliances, including motor vehicle air conditioners, refrigerant reclaimers, appliance owners, and manufacturers of appliances and recycling and recovery equipment. Those individuals, operations, or activities affected by this rule, may be required to comply with specified disposal, recycling, or recovery practices, leak repair practices, recordkeeping and/or technician certification requirements.

Facility Specific Requirements

In addition to Title V, ASTORIA GENERATING STATION has been determined to be subject to the following regulations:

40CFR 52-A.21

This citation applies to facilities that are subject to Prevention of Significant Deterioration provisions; ie: facilities that are located in an attainment area and that emit pollutants which are listed in 40 CFR 52.21(b)(23)(i) .

40CFR 72

In order to reduce acid rain in 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 NO_x (sulfur dioxide and oxides of nitrogen). Fossil fuel burning electric utility companies are a major source of these contaminants in the US. These sources were regulated in a phased approach. Phase I, which began in 1995, requires

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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.

40CFR 75

Part 75 establishes the requirements for the monitoring, record keeping, and reporting for sulfur dioxide (SO₂), nitrogen oxides (NO_x), and carbon dioxide (CO₂) emissions and other data to be gathered by facilities affected by the Acid Rain Program

6NYCRR 201-7

This regulation sets forth an emission cap that cannot be exceeded by the facility. In this permit that facility-wide cap is as follows: 719 tpy of Particulates, 719 tpy of PM-10, 259 tpy of Carbon Monoxide, 560 tpy of NO_x, 74.8 tpy of VOC, 189 tpy of Sulfur Dioxide, 750 hours per year of oil firing, 0.04% Sulfur content in the distillate oil burned in the combustion turbines. For Boiler 20, the emission cap is as follows: 49,000 lbs/yr of Particulates, 29,000 lbs/yr of PM-10, 79,000 lbs/yr of Sulfur Dioxide, 98 tpy of Carbon Monoxide, and 110 tpy of NO_x.

6NYCRR 204-2.1

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

6NYCRR 204-4.1

This condition covers the compliance certification report requirements for the NO_x Budget Program.

6NYCRR 204-7.1

This condition lists the requirements for transfer of allowances in the NO_x Budget Program.

6NYCRR 204-8.1

This condition lists the general requirements for the NO_x Budget trading program. They include, but are not limited to monitoring requirements, certification, record keeping and reporting.

6NYCRR 204-8.2

This condition covers the procedures for initially certifying and recertifying the monitoring systems of the unit meet the requirements of the NO_x Budget Program

6NYCRR 204-8.3

This condition states the requirements for data substitution during times when the monitoring systems do not meet applicable quality assurance requirements.

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 shall be

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sent.

6NYCRR 204-8.7

This condition is a requirement for monitoring and reporting if a particular monitoring scenario is utilized.

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.

6NYCRR 225-1.2 (a) (2)

This regulation prohibits any person from selling, offering for sale, purchasing or using any fuel which contains sulfur in a quantity exceeding the limitations set forth in Table 1, Table 2, or Table 3 of this section.

6NYCRR 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.

6NYCRR 225-1.8

This regulation requires an owner or operator of a facility which purchases and fires coal and/or oil to submit reports to the commissioner containing fuel analysis data, information on the quantity of the fuel received, burned, and results of any stack sampling, stack monitoring and any other procedures to ensure compliance with the provisions of 6 NYCRR Part 225-1.

6NYCRR 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.

6NYCRR 227-1.3

This regulation requires a limitation and compliance monitoring for opacity from a stationary combustion installation.

6NYCRR 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.

6NYCRR 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

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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.

6NYCRR 227-2.6

This regulation establishes the compliance testing, monitoring, and reporting requirements for NOx RACT affected stationary combustion installations.

6NYCRR 227-2.6 (a) (1)

This regulation establishes the monitoring requirements for NOx RACT affected very large boilers (boilers with a heat input of greater than 250 mmBtu/hr).

6NYCRR 231-2.3 (b)

The provisions of Subpart 231-2 apply to new or modified major facilities. The contaminants of concern state-wide are nitrogen oxides and volatile organic compounds since New York State is located in the ozone transport region and because there are ozone non-attainment areas within the state. In the New York City metropolitan area, carbon monoxide is also a non-attainment contaminant. In addition, particulate matter less than 10 microns in size (PM-10) is a non-attainment contaminant in Manhattan County.

The operation of proposed source projects or new major facilities may not commence until all emission reductions being used as offsets actually occur.

6NYCRR 231-2.4 (a) (1)

The provisions of Subpart 231-2 apply to new or modified major facilities. The contaminants of concern state-wide are nitrogen oxides and volatile organic compounds since New York State is located in the ozone transport region and because there are ozone non-attainment areas within the state. In the New York City metropolitan area, carbon monoxide is also a non-attainment contaminant. In addition, particulate matter less than 10 microns in size (PM-10) is a non-attainment contaminant in Manhattan County.

The permitting requirements for proposed source projects and new major facilities are set forth in section 231-2.4.

6NYCRR 231-2.6

The provisions of Subpart 231-2 apply to new or modified major facilities. The contaminants of concern state-wide are nitrogen oxides and volatile organic compounds since New York State is located in the ozone transport region and because there are ozone non-attainment areas within the state. In the New York City metropolitan area, carbon monoxide is also a non-attainment contaminant. In addition, particulate matter less than 10 microns in size (PM-10) is a non-attainment contaminant in Manhattan County.

The requirements and criteria for creating and certifying emission reduction credits (ERCs) are set forth in section 231-2.6.

Compliance Certification

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Summary of monitoring activities at ASTORIA GENERATING STATION:

Location Facility/EU/EP/Process/ES	Type of Monitoring	Cond No.
FACILITY	record keeping/maintenance procedures	46
FACILITY	record keeping/maintenance procedures	47
FACILITY	monitoring of process or control device parameters as surrogate	23
FACILITY	monitoring of process or control device parameters as surrogate	24
FACILITY	monitoring of process or control device parameters as surrogate	25
FACILITY	record keeping/maintenance procedures	5
FACILITY	record keeping/maintenance procedures	6
FACILITY	monitoring of process or control device parameters as surrogate	28
FACILITY	continuous emission monitoring (cem)	29
A-S0001/-/NG3/00020	monitoring of process or control device parameters as surrogate	55
A-S0001/-/NG3/00020	monitoring of process or control device parameters as surrogate	56
A-S0001/-/NG3/00020	monitoring of process or control device parameters as surrogate	57
A-S0001/-/NG3/00020	intermittent emission testing	58
A-S0001/-/NG3/00020	intermittent emission testing	59
FACILITY	record keeping/maintenance procedures	7
FACILITY	record keeping/maintenance procedures	31
FACILITY	record keeping/maintenance procedures	35
FACILITY	record keeping/maintenance procedures	37
FACILITY	record keeping/maintenance procedures	38
FACILITY	work practice involving specific operations	40
FACILITY	record keeping/maintenance procedures	41
FACILITY	record keeping/maintenance procedures	42
A-S0002/-/RO1/00030	intermittent emission testing	67
A-S0003/-/RO2/00040	intermittent emission testing	71
A-S0004/-/RO3/00050	intermittent emission testing	76
FACILITY	record keeping/maintenance procedures	43
A-S0002/00031	continuous emission monitoring (cem)	68
A-S0002/00032	continuous emission monitoring (cem)	69
A-S0003/00041	continuous emission monitoring (cem)	72
A-S0003/00042	continuous emission monitoring (cem)	73
A-S0004/00051	continuous emission monitoring (cem)	77
A-S0004/00052	continuous emission monitoring (cem)	78
A-S0001/00021	monitoring of process or control device parameters as surrogate	62
FACILITY	record keeping/maintenance procedures	45
A-S0005	record keeping/maintenance procedures	79
A-S0005	record keeping/maintenance procedures	80
A-S0001/-/NG3/00020	continuous emission monitoring (cem)	60
A-S0001/-/NG3/00020	continuous emission monitoring (cem)	61
A-S0001	continuous emission monitoring (cem)	53
A-S0001	continuous emission monitoring (cem)	54
A-S0002	continuous emission monitoring (cem)	66

Basis for Monitoring

This facility is subject to the requirements of Title V. The facility is required, under the provisions of 6 NYCRR Subpart 201-6, to submit semiannual compliance reports and an annual Compliance Certification. This facility has to comply with the following monitoring conditions:

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Condition # 5 for 6NYCRR Part 201-6.5(c)(3)(ii): This is a facility-wide condition. This condition 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.

Condition # 6 for 6NYCRR Part 201-6.5(e): This is a facility-wide condition. This condition specifies the overall permit requirements for compliance certification, including emission limitations, standards or work practices.

Condition # 7 for 6NYCRR Part 202-2.1: This is a facility-wide condition. This condition sets forth the applicability criteria for submitting an annual statement of emissions. The criteria is based on annual emission threshold quantities and ozone attainment designation. This condition applies to all Title V facilities and these facilities must submit an annual emission statement by April 15th of each year.

Condition # 23 for 6 NYCRR 200.6: The facility-wide SO₂ emissions cap is limited to 2,040 pounds per hour based on a 24-hour average.

Condition # 24 for 6 NYCRR 200.6: The facility-wide SO₂ emissions cap is limited to 3,120 pounds per hour based on a 3-hour average.

Condition # 25 for 6 NYCRR 200.6: The facility-wide SO₂ emissions cap is limited to 8,935.2 tons per year based on the 24-hour average.

Condition # 28 for 6 NYCRR 201-7, capping out of 6 NYCRR 231-2.3(b): The combined CO emissions from Emission Points 00031 & 00032 from Boiler 30 (Emission Source 00032) are be limited to 1,435 ton per 365-day period. Quantities of fuels fired are to be recorded daily.

Condition # 29 for 6 NYCRR 201-7, capping out of 6 NYCRR 231-2.3(b): The combined NO_x emissions from Emission Points 00031 & 00032 from Boiler 30 (Emission Source 00032) is limited to 1,764 ton per 365-day period. The NO_x emissions from Emission Points 00031 & 00032 are to be continuously monitored and recorded using Part 75 certified CEMS. Quantities of fuel fired will be recorded daily.

Condition # 31 for 6 NYCRR 204-4.1: For each control period in which one or more NO_x Budget units at a source are subject to the NO_x Budget emissions limitation, the NO_x authorized account representative of the source shall submit to the Department and the Administrator by November 30 of that year compliance certification report for each source covering all such units.

Condition # 35 for 6 NYCRR 204-8.2: For the requirement of the NO_x Budget, the facility is to report NO_x mass, heat input (if required for purposes of allocations) and any other values required to determine NO_x Mass (e.g. NO_x emission rate and heat input or NO_x concentration and stack flow) using the provisions of 40 CFR 75.70(g), from the date and hour that the unit starts operating until all required certification tests are successfully completed.

Condition # 38 for 6 NYCRR 204-8.7: If the facility elects to monitor and report NO_x Mass emissions using a NO_x concentration system and a flow system for the NO_x Budget, the the facility is also required



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to monitor and report heat input using the procedures set forth in 40 CFR Part 75.

Condition # 40 for 6 NYCRR 225-1.2(a)(2): The sulfur content in the residual oil fuel shall not exceed 0.30 % by weight.

Condition # 41 for 6 NYCRR 225-1.7(c): The facility is to record continuously and maintain the daily fuel usage, the average daily electrical output and hourly generation data. Records of the gross heat content and ash content of each fuel delivery are to be maintained at the facility.

Condition # 42 for 6 NYCRR 225-1.8: The facility is to submit reports containing fuel analysis data, quantity of fuel received, burned, and results of any stack sampling/monitoring are to be submitted to the Department on a monthly basis.

Condition # 43 for 6 NYCRR 227-1.3: COMS will be operated continuously on Emission points 00031, 00032, 00041, 00042, 00051 & 00052 in accordance with Appendix B of 40 CFR Part 60. The facility is to operate Boilers 30, 40 & 50 in accordance with these boilers' opacity related equipment and preventive maintenance elements that are outlined in the condition. The facility is required to submit quarterly reports.

Condition # 45 for 6 NYCRR 227-2.5(b): The facility's system-wide NOx averaging of NOx emissions from its Astoria, Gowanus, and Narrows generating stations must be performed in accordance with the most current version of the NOX RACT Compliance and Operating Plan approved by the Department.

System-wide NOx averaging is to be performed in accordance with Astoria Generating Company's NOX RACT Compliance and Operating Plan approved by the Department. Throughout the reporting period, NOx emissions from Astoria Generating Station (Boilers 20, 30, 40 & 50) will be monitored continuously using Part 75 certified CEMS. Nox emissions from the Gowanus and Narrows Generating stations are to be calculated using hourly heat inputs and tested Nox emission rates.

Condition # 46 for 40 CFR 72: The facility is subject to the Title IV Acid Rain regulations found in 40 CFR Parts 72, 73, 75, 76, 77 & 78. The Acid Rain Permit (DEC ID # 2-6301-00185/00017) is an attachment to this Title V permit. As per Title IV permit, the facility is required to have sufficient SO2 allowance in its possession to cover the SO2 emissions from the facility. This facility must also submit reports as required in the Title IV permit.

Condition # 47 for 40 CFR 75: The facility is required to comply with the reporting and the record keeping requirements of 40 CFR Part 75 for Continuous Emission Monitoring.

Condition # 53 for 6 NYCRR 231-2.6: Emission Unit A-S0001 (Boiler 20) has a CO emission limit of 98 tons per year on a 12-month rolling basis.

Condition # 54 for 6 NYCRR 231-2.6: Emission Unit A-S0001 (Boiler 20) has a NOx emission limit of 110 tons per year on a 12-month rolling basis.

Condition # 55 for 6 NYCRR 201-7, Capping out of 40 CFR 52-A.21: Emission Unit A-S0001,

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Process NG3 and Emission Source 00020 (Boiler 20) has a Particulates emission limit of 49,000 pounds per year on a 12-month rolling basis.

Condition # 56 for 6 NYCRR 201-7, Capping out of 40 CFR 52-A.21: Emission Unit A-S0001, Process NG3 and Emission Source 00020 (Boiler 20) has a PM-10 emission limit of 29,000 pounds per year on a 12-month rolling basis.

Condition # 57 for 6 NYCRR 201-7, Capping out of 40 CFR 52-A.21: Emission Unit A-S0001, Process NG3 and Emission Source 00020 (Boiler 20) has a Sulfur Dioxide emission limit of 79,000 pounds per year on a 12-month rolling basis.

Condition # 58 for 6 NYCRR 201-7, Capping out of 40 CFR 52-A.21: Emission Unit A-S0001, Process NG3 and Emission Source 00020 (Boiler 20), the facility is required to conduct a PM-10 stack testing once during the term of the permit to verify compliance with the PM-10 emission limit of 29,000 pounds per year on a 12-month rolling basis.

Condition # 59 for 6 NYCRR 201-7, Capping out of 40 CFR 52-A.21: Emission Unit A-S0001, Process NG3 and Emission Source 00020 (Boiler 20), the facility is required to conduct a Particulates stack testing once during the term of the permit to verify compliance with the PM-10 emission limit of 49,000 pounds per year on a 12-month rolling basis.

Condition # 60 for 6 NYCRR 231-2.4(a)(1): Emission Unit A-S0001 (Boiler 20), the facility is required to operate CEMS to show compliance with the NOx emission limit of 110 tons per year on a 12-month rolling basis.

Condition # 61 for 6 NYCRR 231-2.4(a)(1): Emission Unit A-S0001 (Boiler 20), the facility is required to operate CEMS to verify compliance with the CO emission limit of 98 tons per year on a 12-month rolling basis.

Condition # 62 for 6 NYCRR 227-1.3(a): Emission Unit A-S0001 and Emission point 00021 for Boiler 20, the opacity is monitored to verify compliance with the 20 % limit.

Condition # 66 for 6 NYCRR 231-2.6: Emission Unit A-S0002 for Boiler 30, the facility has to operate EMS to verify compliance with the NOx emission limit of 1,764 tons per year on a 12-month rolling basis.

Condition # 67 for 6 NYCRR 227.2(b)(1): Boiler 30 in Emission Unit A-S0002, Process RO1 and Emission Source 00030, the facility is required to conduct Particulate stack testing once during the term of the permit to verify compliance with the 0.10 pounds per million Btus.

Condition # 68 for 6 NYCRR 227-1.3: Boiler 30 in Emission Unit A-S0002 and Emission Point 00031, the facility is required to operate COMS for continuous monitoring of the opacity to verify the 20 % limit.

Condition # 69 for 6 NYCRR 227-1.3: Boiler 30 in Emission Unit A-S0002 and Emission Point 00032, the facility is required to operate COMS for continuous monitoring of the opacity to verify the 20

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% limit.

Condition # 71 for 6 NYCRR 227.2(b)(1): Boiler 40 in Emission Unit A-S0003, Process RO2 and Emission Source 00040, the facility is required to conduct Particulate stack testing once during the term of the permit to verify compliance with the 0.10 pounds per million Btus.

Condition # 72 for 6 NYCRR 227-1.3: Boiler 40 in Emission Unit A-S0003 and Emission Point 00041, the facility is required to operate COMS for continuous monitoring of the opacity to verify the 20% limit.

Condition # 73 for 6 NYCRR 227-1.3: Boiler 40 in Emission Unit A-S0003 and Emission Point 00042, the facility is required to operate COMS for continuous monitoring of the opacity to verify the 20% limit.

Condition # 76 for 6 NYCRR 227.2(b)(1): Boiler 50 in Emission Unit A-S0004, Process RO3 and Emission Source 00050, the facility is required to conduct Particulate stack testing once during the term of the permit to verify compliance with the 0.10 pounds per million Btus.

Condition # 77 for 6 NYCRR 227-1.3: Boiler 50 in Emission Unit A-S0004 and Emission Point 00051, the facility is required to operate COMS for continuous monitoring of the opacity to verify the 20% limit.

Condition # 78 for 6 NYCRR 227-1.3: Boiler 50 in Emission Unit A-S0004 and Emission Point 00052, the facility is required to operate COMS for continuous monitoring of the opacity to verify the 20% limit.

Condition # 79 for 6 NYCRR 227-2.6: The Combustion Turbine (Emission Source GT001) in Emission Unit A-S0005 for NOx: In lieu of performing a stack test on the Starter Engine associated with the Combustion Turbine, a log must be kept which lists the dates of operation of the Starter Engine and the duration of each occurrence. The log must be maintained at the facility and submitted to the Department with the semi-annual report.

Condition # 80 for 6 NYCRR 227-2.6 : The Combustion Turbine (Emission Source GT001) in Emission Unit A-S0005 for NOx: The facility is required to conduct stack testing once during the term of the permit to verify compliance of NOx emissions from the Combustion Turbine with the most current version of the system-wide averaging plan (NOx RACT Compliance and Operating Plan), submitted by the facility.