



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 2-6301-00185/00009
Effective Date: 04/25/2018 Expiration Date: 04/24/2023

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

Contact: ANDREW W OLIVER
ASTORIA GENERATING COMPANY, LP C/O EASTERN GENERATION
LLC
3650 JAMES ST STE 206
SYRACUSE, NY 13206
(315) 433-1371

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

Contact: NATALIA HERNANDEZ
ASTORIA GENERATING STATION
18-01 20TH AVE GATE # 1
ASTORIA, NY 11105
(718) 204-3918

Description:
The Astoria Generating Station (AGS) with a total electric generating capacity of approximately 1315 MW, consists of four very large boilers, one small boiler, and one simple cycle combustion turbine.

Emission Unit A-S0001 consists of one natural gas fired 1,795 MMBtu/hr Babcock & Wilcox boiler Boiler 20 (Emission Source 00020) and one natural gas fired auxiliary boiler of 37.8 mmbtu/hr. The emissions are exhausted through one stack (Emission Point 00021).

Boiler 20 Emission Caps: PM 24.5 tpy, PM-10 14.5 tpy, SO₂ 39.5 tpy, CO 98 tpy, NO_x 110 tpy, auxiliary boiler emission cap: NO_x 1.96 tpy.

Emission Unit A-S0002 is a natural gas & residual oil fired 3,984 MMBtu/hr Babcock & Wilcox boiler, Boiler 30 (Emission Source 00030). The emissions from Boiler 30 are exhausted through two different stacks (Emission Points 00031 & 00032); FGR is used for NO_x control

Boiler 30 Emission Caps: CO 1,435 tpy. NO_x 1,764 tpy



Emission Unit A-S0003 is a natural gas & residual oil fired 4,074 MMBtu/hr Combustion Engineering boiler, Boiler 40 (Emission Source 00040). The emissions from Boiler 40 are exhausted through two different stacks (Emission Points 00041 & 00042). Boiler 40 permit limits are: NO_x= 229.9 tpy, PM_{2.5} = 32.7 tpy, PM₁₀ = 34.6 tpy, and VOC = 19.1 tpy.

Emission Unit A-S0004 is a natural gas & residual oil fired 4,094 MMBtu/hr Combustion Engineering boiler, Boiler 50 (Emission Source 00050). The emissions from Boiler 50 are exhausted through two different stacks (Emission Points 00051 & 00052)

Emission Unit A-S0005 is a natural gas fired 243 MMBtu/hr GE Model 5000L simple-cycle combustion turbine , GT001(Emission Source GT001) and has a starter engine(SD1) of 600bhp. The emissions from GT001 and SD1 are exhausted through one stack (Emission Point GT001)

The facility also includes other sources exempt from permitting:

- Seven 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
- One ventilating and exhaust system for laboratory operations.

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

Permit Administrator: STEPHEN A WATTS
 47-40 21ST ST
 LONG ISLAND CITY, NY 11101-5401

Authorized Signature: _____ Date: ____ / ____ / ____



Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

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

Item B: Permittee's Contractors to Comply with Permit

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

Item C: Permittee Responsible for Obtaining Other Required Permits

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

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

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



LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions

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

Facility Level

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



DEC GENERAL CONDITIONS

****** General Provisions ******

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

GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department

Applicable State Requirement: ECL 19-0305

Item 1.1:

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

Item 1.2:

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

Item 1.3:

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

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

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

Item 2.1:

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

Condition 3: Applications for permit renewals, modifications and transfers

Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:

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

Item 3.2:

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

Item 3.3

Permits are transferrable with the approval of the department unless specifically prohibited by



the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

Condition 4: Permit modifications, suspensions or revocations by the Department
Applicable State Requirement: 6 NYCRR 621.13

Item 4.1:

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

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

****** Facility Level ******

Condition 5: Submission of application for permit modification or renewal - REGION 2 HEADQUARTERS
Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 5.1:

Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 2 Headquarters
Division of Environmental Permits
1 Hunters Point Plaza, 4740 21st Street
Long Island City, NY 11101-5407
(718) 482-4997

New York State Department of Environmental Conservation

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185



Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

IDENTIFICATION INFORMATION

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

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

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

Permit Effective Date: 04/25/2018

Permit Expiration Date: 04/24/2023



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 1 6 NYCRR 200.6: Acceptable Ambient Air Quality
- 2 6 NYCRR 201-6.4 (a) (7): Fees
- 3 6 NYCRR 201-6.4 (c): Recordkeeping and Reporting of Compliance Monitoring
- 4 6 NYCRR 201-6.4 (c) (2): Records of Monitoring, Sampling, and Measurement
- 5 6 NYCRR 201-6.4 (c) (3) (ii): Compliance Certification
- 6 6 NYCRR 201-6.4 (e): Compliance Certification
- 7 6 NYCRR 202-2.1: Compliance Certification
- 8 6 NYCRR 202-2.5: Recordkeeping requirements
- 9 6 NYCRR 215.2: Open Fires - Prohibitions
- 10 6 NYCRR 200.7: Maintenance of Equipment
- 11 6 NYCRR 201-1.7: Recycling and Salvage
- 12 6 NYCRR 201-1.8: Prohibition of Reintroduction of Collected Contaminants to the air
- 13 6 NYCRR 201-3.2 (a): Exempt Sources - Proof of Eligibility
- 14 6 NYCRR 201-3.3 (a): Trivial Sources - Proof of Eligibility
- 15 6 NYCRR 201-6.4 (a) (4): Requirement to Provide Information
- 16 6 NYCRR 201-6.4 (a) (8): Right to Inspect
- 17 6 NYCRR 201-6.4 (f) (6): Off Permit Changes
- 18 6 NYCRR 202-1.1: Required Emissions Tests
- 19 40 CFR Part 68: Accidental release provisions.
- 20 40CFR 82, Subpart F: Recycling and Emissions Reduction
- 21 6 NYCRR 200.6: Compliance Certification
- 22 6 NYCRR 200.6: Compliance Certification
- 23 6 NYCRR 200.6: Compliance Certification
- 24 6 NYCRR Subpart 201-6: Emission Unit Definition
- 25 6 NYCRR 201-6.4 (d) (4): Progress Reports Due Semiannually
- 26 6 NYCRR Subpart 201-7: Facility Permissible Emissions
- 27 6 NYCRR Part 207: Submittal of Episode Action Plans
- 28 6 NYCRR 211.1: Air pollution prohibited
- 29 6 NYCRR 225-1.2 (d): Compliance Certification
- 30 6 NYCRR 225-1.2 (h): Compliance Certification
- 31 6 NYCRR 225-1.5 (c): Compliance Certification
- 32 6 NYCRR 227-1.3: Compliance Certification
- 33 6 NYCRR 227-2.5 (b): Compliance Certification
- 34 40CFR 63, Subpart DDDDD: Applicability
- 35 40CFR 63, Subpart DDDDD: Compliance and Enforcement
- 36 40CFR 63.9983(c), Subpart UUUUU: Compliance Certification
- 37 40CFR 63, Subpart ZZZZ: Applicability
- 38 40CFR 63, Subpart ZZZZ: Compliance and Enforcement
- 39 40 CFR Part 72: Compliance Certification
- 40 40 CFR Part 75: Compliance Certification
- 41 40CFR 97.406, Subpart AAAAA: Compliance Certification
- 42 40CFR 97.506, Subpart BBBBB: Compliance Certification
- 43 40CFR 97.606, Subpart CCCCC: Compliance Certification



Emission Unit Level

- 44 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 45 6 NYCRR Subpart 201-6: Process Definition By Emission Unit
- 46 6 NYCRR Subpart 201-7: Process Permissible Emissions

EU=A-S0001

- 47 6 NYCRR 227-1.3 (a): Compliance Certification
- 48 6 NYCRR 227-2.6 (a) (1): Compliance Certification

EU=A-S0001,Proc=005,ES=AB002

- 49 6 NYCRR 227-2.4 (c): Compliance Certification
- 50 40CFR 60.48c(a), NSPS Subpart Dc: Compliance Certification
- 51 40CFR 60.48c(g), NSPS Subpart Dc: Compliance Certification
- 52 40CFR 60.48c(i), NSPS Subpart Dc: Compliance Certification

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

- *53 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *54 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *55 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *56 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *57 6 NYCRR Subpart 201-7: Capping Monitoring Condition

EU=A-S0001,EP=00021,Proc=005,ES=AB002

- *58 6 NYCRR Subpart 201-7: Capping Monitoring Condition

EU=A-S0002

- 59 6 NYCRR 227-2.6 (a) (1): Compliance Certification

EU=A-S0002,Proc=RO1,ES=00030

- 60 6 NYCRR 227.2 (b) (1): Compliance Certification

EU=A-S0002,EP=00031

- 61 6 NYCRR 227-1.3: Compliance Certification

EU=A-S0002,EP=00032

- 62 6 NYCRR 227-1.3: Compliance Certification

EU=A-S0003

- *63 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *64 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *65 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *66 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 67 6 NYCRR 227-2.6 (a) (1): Compliance Certification

EU=A-S0003,Proc=RO2,ES=00040

- 68 6 NYCRR 227.2 (b) (1): Compliance Certification

EU=A-S0003,EP=00041

- 69 6 NYCRR 227-1.3: Compliance Certification



EU=A-S0003,EP=00042

70 6 NYCRR 227-1.3: Compliance Certification

EU=A-S0004

71 6 NYCRR 227-2.6 (a) (1): Compliance Certification

EU=A-S0004,Proc=RO3,ES=00050

72 6 NYCRR 227.2 (b) (1): Compliance Certification

EU=A-S0004,EP=00051

73 6 NYCRR 227-1.3: Compliance Certification

EU=A-S0004,EP=00052

74 6 NYCRR 227-1.3: Compliance Certification

EU=A-S0005

75 6 NYCRR 227-2.6: Compliance Certification

76 6 NYCRR 227-2.6: Compliance Certification

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

77 ECL 19-0301: Contaminant List

78 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities

79 6 NYCRR 242-1.5: CO2 Budget Trading Program - Excess emission requirements

80 6 NYCRR 242-1.5: Compliance Demonstration

81 6 NYCRR 242-1.5: Compliance Demonstration

NOTE: * preceding the condition number indicates capping.



FEDERALLY ENFORCEABLE CONDITIONS

****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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

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

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

Item B: Timely Application for the Renewal of Title V Permits - 6 NYCRR 201-6.2 (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 C: Certification by a Responsible Official - 6 NYCRR 201-6.2 (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 D: Requirement to Comply With All Conditions - 6 NYCRR 201-6.4 (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 E: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR 201-6.4 (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 F: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR 201-6.4 (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 G: Property Rights - 6 NYCRR 201-6.4 (a) (6)

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

Item H: Severability - 6 NYCRR 201-6.4 (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 I: Permit Shield - 6 NYCRR 201-6.4 (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 J: Reopening for Cause - 6 NYCRR 201-6.4 (i)

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

i. When additional applicable requirements under the act become applicable to a title V facility with a remaining permit term of 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 the 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 section 201- 6.6 of this Subpart.

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

New York State Department of Environmental Conservation

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Facility DEC ID: 2630100185



contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

Condition 2: Fees
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (7)

Item 2.1:

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

Condition 3: Recordkeeping and Reporting of Compliance Monitoring
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement:6 NYCRR 201-6.4 (c)

Item 3.1:

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

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

Any deviation from permit requirements must be clearly identified in all records and reports. Reports must be certified by a responsible official, consistent with Section 201-6.2 of Part 201.

Condition 4: Records of Monitoring, Sampling, and Measurement
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement:6 NYCRR 201-6.4 (c) (2)

Item 4.1:

Compliance monitoring and recordkeeping shall be conducted according to the terms and conditions contained in this permit and shall follow all quality assurance requirements found in applicable regulations. Records of all monitoring data and support information must be retained for a period of at least 5 years from the date of the monitoring, sampling, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all



reports required by the permit.

Condition 5: Compliance Certification
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement: 6 NYCRR 201-6.4 (c) (3) (ii)

Item 5.1:

The Compliance Certification activity will be performed for the Facility.

Item 5.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

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

- (1) For emissions of a hazardous air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.
- (2) For emissions of any regulated air pollutant, excluding those listed in paragraph (1) of this section, that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.
- (3) For all other deviations from permit requirements,



the report shall be contained in the 6 month monitoring report required above.

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

If above paragraphs (1) or (2) are met, the source must notify the permitting authority by telephone during normal business hours at the Regional Office of jurisdiction for this permit, attention Regional Air Pollution Control Engineer (RAPCE) according to the timetable listed in paragraphs (1) and (2) of this section. For deviations and incidences that must be reported outside of normal business hours, on weekends, or holidays, the DEC Spill Hotline phone number at 1-800-457-7362 shall be used. A written notice, certified by a responsible official consistent with 6 NYCRR Part 201-6.2(d)(12), must be submitted within 10 working days of an occurrence for deviations reported under (1) and (2). All deviations reported under paragraphs (1) and (2) of this section must also be identified in the 6 month monitoring report required above.

The provisions of 6 NYCRR 201-1.4 shall apply if the permittee seeks to have a violation excused unless otherwise limited by regulation. In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets. Notwithstanding any recordkeeping and reporting requirements in 6 NYCRR 201-1.4, reports of any deviations shall not be on a less frequent basis than the reporting periods described in paragraphs (1) and (4) above.

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

In the case of any emission testing performed during the previous six month reporting period, either due to a request by the Department, EPA, or a regulatory requirement, the permittee shall include in the semiannual



report a summary of the testing results and shall indicate whether or not the Department or EPA has approved the results.

All semiannual reports may be submitted electronically or physically. Electronic reports shall be submitted using the Department's Air Compliance and Emissions Electronic-Reporting system (ACE). If the facility owner or operator elects to send physical copies instead, two copies shall be sent to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office) and one copy shall be sent to the Administrator (or his or her representative). Mailing addresses for the above referenced persons are contained in the monitoring condition for 6 NYCRR Part 201-6.4(e), contained elsewhere in this permit.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2018.

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

Condition 6: Compliance Certification
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement: 6 NYCRR 201-6.4 (e)

Item 6.1:

The Compliance Certification activity will be performed for the Facility.

Item 6.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

- i. Compliance certifications shall contain:
 - the identification of each term or condition of the permit that is the basis of the certification;
 - the compliance status;
 - whether compliance was continuous or intermittent;
 - the method(s) used for determining the compliance status of the facility, currently and over the reporting period consistent with the monitoring and related record keeping and reporting requirements of this permit;
 - such other facts as the Department may require to determine the compliance status of the facility as



specified in any special permit terms or conditions;
and
- such additional requirements as may be specified elsewhere in this permit related to compliance certification.

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

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

iv. All annual compliance certifications may be submitted electronically or physically. Electronic reports shall be submitted using the Department's Air Compliance and Emissions Electronic-Reporting system (ACE). If the facility owner or operator elects to send physical copies instead, two copies shall be sent to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office) and one copy shall be sent to the Administrator (or his or her representative). The mailing addresses for the above referenced persons are:

Chief – Stationary Source Compliance Section
USEPA Region 2
Air Compliance Branch
290 Broadway
New York, NY 10007-1866

The address for the RAPCE is as follows:

Regional Air Pollution Control Engineer
Hunters Point Plaza
47-40 21st Street
Long Island City, NY 11101-5407

The address for the BQA is as follows:

NYSDEC

New York State Department of Environmental Conservation

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185



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

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2018.
Subsequent reports are due on the same day each year

Condition 7: Compliance Certification
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement:6 NYCRR 202-2.1

Item 7.1:

The Compliance Certification activity will be performed for the Facility.

Item 7.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

Condition 8: Recordkeeping requirements
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement:6 NYCRR 202-2.5

Item 8.1:

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

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

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

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

Condition 9: Open Fires - Prohibitions
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement:6 NYCRR 215.2



Item 9.1:

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

Item 9.2

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

- (a) On-site burning in any town with a total population less than 20,000 of downed limbs and branches (including branches with attached leaves or needles) less than six inches in diameter and eight feet in length between May 15th and the following March 15th. For the purposes of this subdivision, the total population of a town shall include the population of any village or portion thereof located within the town. However, this subdivision shall not be construed to allow burning within any village.
- (b) Barbecue grills, maple sugar arches and similar outdoor cooking devices when actually used for cooking or processing food.
- (c) Small fires used for cooking and camp fires provided that only charcoal or untreated wood is used as fuel and the fire is not left unattended until extinguished.
- (d) On-site burning of agricultural wastes as part of a valid agricultural operation on contiguous agricultural lands larger than five acres actively devoted to agricultural or horticultural use, provided such waste is actually grown or generated on those lands and such waste is capable of being fully burned within a 24-hour period.
- (e) The use of liquid petroleum fueled smudge pots to prevent frost damage to crops.
- (f) Ceremonial or celebratory bonfires where not otherwise prohibited by law, provided that only untreated wood or other agricultural products are used as fuel and the fire is not left unattended until extinguished.
- (g) Small fires that are used to dispose of a flag or religious item, and small fires or other smoke producing process where not otherwise prohibited by law that are used in connection with a religious ceremony.
- (h) Burning on an emergency basis of explosive or other dangerous or contraband materials by police or other public safety organization.
- (i) Prescribed burns performed according to Part 194 of this Title.
- (j) Fire training, including firefighting, fire rescue, and fire/arson investigation training, performed under applicable rules and guidelines of the New York State Department of State's Office of Fire Prevention and Control. For fire training performed on acquired structures, the structures must be emptied and stripped of any material that is toxic, hazardous or likely to emit toxic smoke (such as asbestos, asphalt shingles and vinyl siding or other vinyl products) prior to burning and must be at least 300 feet from other occupied structures. No more than one structure per lot or within a 300 foot radius (whichever is bigger) may be burned in a training exercise.
- (k) Individual open fires as approved by the Director of the Division of Air Resources as may be required in response to an outbreak of a plant or animal disease upon request by the commissioner of the Department of Agriculture and Markets, or for the destruction of invasive plant and insect species.
- (l) Individual open fires that are otherwise authorized under the environmental conservation law, or by rule or regulation of the Department.

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

The following federally enforceable permit conditions are mandatory for all



Title V permits and are subject to annual compliance certification requirements only if effectuated during the reporting period.

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

Condition 10: Maintenance of Equipment
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement:6 NYCRR 200.7

Item 10.1:

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

Condition 11: Recycling and Salvage
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement:6 NYCRR 201-1.7

Item 11.1:

Where practical, the owner or operator of an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of the ECL.

Condition 12: Prohibition of Reintroduction of Collected Contaminants to the air
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement:6 NYCRR 201-1.8

Item 12.1:

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

Condition 13: Exempt Sources - Proof of Eligibility
Effective between the dates of 04/25/2018 and 04/24/2023

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

Item 13.1:

The owner or operator of an emission source or activity that is listed as being exempt may be required to certify that it is operated within the specific criteria described in this Subpart. The owner or operator of any such emission source or activity must maintain all records necessary for demonstrating compliance with this Subpart on-site for a period of five years, and make them available to representatives of the department upon request.

Condition 14: Trivial Sources - Proof of Eligibility
Effective between the dates of 04/25/2018 and 04/24/2023



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daily mass emissions totaled over each 24-hour daily period (the total of hourly averages from 12:00 midnight to the following midnight). Emission calculations will be performed in a manner acceptable to the Department.

Process Material: FUEL CONSUMPTION
Parameter Monitored: SULFUR DIOXIDE
Upper Permit Limit: 8,935.2 tons per year
Monitoring Frequency: CONTINUOUS
Averaging Method: 24-HOUR AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2018.
Subsequent reports are due every 3 calendar month(s).

Condition 23: Compliance Certification
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement: 6 NYCRR 200.6

Item 23.1:

The Compliance Certification activity will be performed for the Facility.

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

Item 23.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Astoria Generating Station's facility-wide SO₂ emissions shall not exceed the following limits:

- (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).

Compliance with this SO₂ emission cap limit shall be demonstrated by maintaining records of the amount of fuel fired and corresponding emissions, based on accepted emission factors for SO₂. These records shall include the 24-hour average mass emissions totaled over each 24-hour daily period (the averages from 12:00 midnight to the following midnight). Emission calculations will be performed in a manner acceptable to the Department.

Process Material: FUEL CONSUMPTION

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Parameter Monitored: SULFUR DIOXIDE
Upper Permit Limit: 2,040 pounds per hour
Monitoring Frequency: CONTINUOUS
Averaging Method: 24-HOUR AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2018.
Subsequent reports are due every 3 calendar month(s).

Condition 24: Emission Unit Definition
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 24.1:

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

Emission Unit: A-S0001

Emission Unit Description:

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

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

This emission unit also has an auxiliary boiler(37.8 MMBtu/RH) boiler firing natural gas, provides station auxiliary steam and operates only when the four steam boilers are not operating.

The auxiliary boiler exhaust gases vent through the existing boiler 20 stack.

Building(s): BOILERHS

Item 24.2:

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

Emission Unit: A-S0002

Emission Unit Description:

Emission Unit A-S0002 consists of one very large (3,984



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

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

Building(s): BOILERHS

Item 24.3:

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

Emission Unit: A-S0003

Emission Unit Description:

Emission Unit A-S0003 consists of one very large (4,074 MAM But/RH) 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 a 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.

With a previous permit Mod (Ren 2 Mod 1) Boiler 40 air emissions are limited, following an extensive repair to the Boiler 40 due to a damage. 6 NYCRR Part 231-2 & PSD applicability analysis were performed and facility limited the Boiler 40 emissions below the baseline emissions, and therefore resulted in zero net increase of emissions. Boiler 40 permit limited are: NOx= 229.9 tpy, PM2.5 = 32.7tpy, PM10 = 34.6 tpy, and VOC = 19.1tpy.



Building(s): BOILERHS

Item 24.4:

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

Emission Unit: A-S0004

Emission Unit Description:

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

Building(s): BOILERHS

Item 24.5:

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

Emission Unit: A-S0005

Emission Unit Description:

Emission Unit A-S0005 consists of one 243 MM Btu/hr General Electric Model 5000L simple cycle combustion turbine, GT001 (Emission Source GT001), utilized to generate electricity. The combustion turbine burns only natural gas (Process GTN) and has a 600 hp diesel starter engine. Combustion Turbine GT001 was constructed and began operating on 7/1/1967 in the Gas Turbine Facility (GTFAC). Emissions from GT001 and starter engine are exhausted through one stack, which is identified as Emission Point GT001.

Building(s): GTFAC

**Condition 25: Progress Reports Due Semiannually
Effective between the dates of 04/25/2018 and 04/24/2023**

Applicable Federal Requirement:6 NYCRR 201-6.4 (d) (4)

Item 25.1:

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

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



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

Condition 26: Facility Permissible Emissions
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 26.1:

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

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

CAS No: 000630-08-0 Name: CARBON MONOXIDE	PTE: 4,591,086 pounds per year
CAS No: 007446-09-5 Name: SULFUR DIOXIDE	PTE: 22,547,139 pounds per year
CAS No: 0NY075-00-0 Name: PARTICULATES	PTE: 2,969,171 pounds per year
CAS No: 0NY075-00-5 Name: PM-10	PTE: 2,103,812 pounds per year
CAS No: 0NY075-02-5 Name: PM 2.5	PTE: 1,480,666 pounds per year
CAS No: 0NY210-00-0 Name: OXIDES OF NITROGEN	PTE: 10,463,188 pounds per year
CAS No: 0NY998-00-0 Name: VOC	PTE: 466,252.3 pounds per year

Condition 27: Submittal of Episode Action Plans
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement:6 NYCRR Part 207

Item 27.1:

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

Condition 28: Air pollution prohibited
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement:6 NYCRR 211.1

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Item 28.1:

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

Condition 29: Compliance Certification
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement:6 NYCRR 225-1.2 (d)

Item 29.1:

The Compliance Certification activity will be performed for the Facility.

Item 29.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Owners and/or operators of any stationary combustion installation that fires residual oil are limited to the firing of residual oil with a sulfur content of 0.30% sulfur.

Data collected pursuant to this Subpart must be tabulated and summarized in a form acceptable to the Department, and must be retained for at least five years. The owner of a Title V facility must furnish to the Department such records and summaries, on a semiannual calendar basis, within 30 days after the end of the semiannual period. All other facility owners or distributors must submit these records and summaries upon request of the Department.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: RESIDUAL FUEL (#4, #5 AND/OR #6 FUEL OIL)

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.30 percent by weight

Monitoring Frequency: PER DELIVERY

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

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 30: Compliance Certification
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement:6 NYCRR 225-1.2 (h)

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Item 30.1:

The Compliance Certification activity will be performed for the Facility.

Item 30.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Owners and/or operators of a stationary combustion installations that fire distillate oil are limited to the firing of distillate oil with 0.0015 percent sulfur by weight or less on or after July 1, 2016. Compliance with this limit will be based on vendor certifications.

Data collected pursuant to this Subpart must be tabulated and summarized in a form acceptable to the Department, and must be retained for at least five years. The owner of a Title V facility must furnish to the Department such records and summaries, on a semiannual calendar basis, within 30 days after the end of the semiannual period. All other facility owners or distributors must submit these records and summaries upon request of the Department.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.0015 percent by weight

Monitoring Frequency: PER DELIVERY

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

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 31: Compliance Certification

Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement: 6 NYCRR 225-1.5 (c)

Item 31.1:

The Compliance Certification activity will be performed for the Facility.

Item 31.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Measurements must be made daily of the rate of each fuel fired. The gross heat content and ash content of each fuel fired must be determined at least once each week. In the case of stationary combustion installations producing



electricity for sale, the average electrical output and the hourly generation rate must also be measured.

Data collected pursuant to this Subpart must be tabulated and summarized in a form acceptable to the Department, and must be retained for at least five years. The owner of a Title V facility must furnish to the Department such records and summaries, on a semiannual calendar basis, within 30 days after the end of the semiannual period. All other facility owners or distributors must submit these records and summaries upon request of the Department.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 32: Compliance Certification
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement:6 NYCRR 227-1.3

Item 32.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 32.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

ASTORIA GENERATING STATION
BOILERS 30, 40 & 50 OPACITY RELATED
EQUIPMENT
AND PREVENTIVE MAINTENANCE ELEMENTS

A. Opacity Incident Reporting

Permittee shall prepare opacity incident reports consistent with the requirements of this paragraph. The term "opacity incident" means smoke emissions which exhibit greater than 20% opacity (6-minute average). Opacity incident reports shall be maintained by the Permittee for a period of three years and shall be made available for inspection by the Department on demand.

Incident Reports shall identify personnel on duty, and



include a brief summary of the incident and, as necessary, a sequence of events, a preliminary cause analysis, and associated corrective action requirements.

B. Opacity Reporting Compliance Audits

Permittee shall conduct monthly opacity reporting compliance audits consistent with the requirements of this paragraph.

Audits include a detailed review of all opacity charts for the prior month, confirmation that all indicated events were properly reported and documented, charts properly marked, survey sheets completed and all documentation retained. Comprehensive audits reports shall continue to be prepared to identify all relevant observations. Items tabulated include missing chart hours and survey sheets, events greater than 20% opacity, events greater than 40% opacity, total incidents, incidents reported and events covered by Incident Reports.

C. Awareness, Communications & Training

Permittee shall comply with the opacity awareness, communications and training provisions of this paragraph.

Opacity audit results and initiatives shall be formal agenda items at regular meetings conducted by the plant manager. Opacity reduction program activities shall also be discussed at the same meetings.

Opacity understanding and awareness shall be communicated on an on-going basis from station management to supervisory and operating and maintenance personnel. Permittee shall provide training in opacity regulatory requirements, fundamentals of combustion, and the balance between NO_x control, and opacity and continuous emissions monitoring interface.

D. Preventive Maintenance

Permittee shall conduct, on an ongoing basis, a preventive maintenance program as described in this paragraph.

The program shall encompass fuel, air, burner, and instrument and control system components and includes items such as fan, dampers, burners, ignitors, regulators, and related components.

The Department shall be notified of all significant



additions and deletions to the preventive maintenance program. The preventive maintenance program shall include, but not be limited to, the elements of the preventive maintenance program listed below.

E. Root Cause Analysis and Corrective Action

Permittee shall conduct root cause analyses as described in this paragraph and shall take all corrective actions that are deemed necessary to maintain the facilities in full compliance with the State's opacity requirements.

A comprehensive Root Cause Analysis program including deficiency categorization and correction of categorized deficiencies was implemented in April, 1995 by Con Edison. Incident categories include oil, air, atomizing steam, ignition, burner and combustion control system deficiencies. Analysis categorization and corrective action development shall be performed monthly by Permittee's Boiler System Engineer and other station personnel. Corrections due to equipment failure, malfunction and marginal design shall be accomplished by corrective maintenance and simple design basis enhancement activities. Correction of operation deviations include focused training, minimized sootblowing and increased boiler fireside washes. Significant design basis deficiencies shall be corrected by the development and implementation of design basis enhancement projects, including, but not limited to, fuel switching and ignition and control system retrofits.

F. Quarterly Reports

Permittee shall submit to the Department quarterly reports each May 15, August 15, November 15 and February 15 which describe the activities and progress that the Permittee have made during the preceding quarter in carrying out the requirements of paragraphs A through E above.

ASTORIA GENERATING STATION
BOILER 30 OPACITY RELATED EQUIPMENT
PREVENTIVE MAINTENANCE ELEMENTS

BURNERS

Oil Gun Inspection (When Burning Oil)
Air Slide External Inspection/Lube
Air Slide and Stationary Baffle Inspection
Gas Ignitor Inspection
Burner Heat Tracing Inspection
Steam and Oil Flexible Hoses Inspection



Check Gas Ignitor Operation
Pneumas Valve Inspection

ID FANS

Check and Adjust ID Fan Vanes
Check ID Fan Vane Drive
ID Fan Discharge Damper Inspection
ID Fan Inlet Ductwork Inspection
ID Fan PM Procedure
ID Fan Motor PM Procedure

FD FANS

FD Fan Outlet Damper Inspection
Inspect FD Fan Discharge Damper Drives
Check FD Fan Air Ducts
FD Fan PM Procedure
FD Fan Motor PM Procedure

REGULATORS

Burner Fuel Oil Regulator PM Procedure
Burner Fuel Gas Regulator PM Procedure
Atomizing Steam Regulators PM Procedure

CONTROL AIR SYSTEM

PM Procedure for Air Dryer
Check Control Air Compressor
Operation

INSTRUMENTATION

Calibrate Fuel Flow Indication & Flow
Transmitters
Calibrate Fuel Oil Pressure to Burners
Calibrate Boiler Air Flow
Calibrate O2 Indication
Calibrate Windbox Pressure
Calibrate Furnace Draft
Calibrate FD Duct Pressure

TRIPS AND ALARMS

Check Testing Alarms
Check Low Fuel Oil Pressure Alarm
Check Low Atomizing Steam Pressure Alarm
Check Lo-Lo Fuel Oil Alarm and Trip
Check Lo-Lo Fuel Gas Trips and Alarms
Check Lo-Lo Atomizing Steam Alarms and Trip
Check Hi Furnace Pressure Alarm and Trip

FUEL OIL FARM

Fuel Oil Pump PM Procedure
Fuel Oil Pump Motor PM Procedure



ASTORIA GENERATING STATION
BOILER 40 OPACITY RELATED EQUIPMENT
PREVENTIVE MAINTENANCE
ELEMENTS

BURNERS

Oil Gun Inspection (When Burning Oil)
Air Slide External Inspection/Lube
Windbox Damper Drive Inspection/Cal/Lube
Windbox ATC Inspection/Cal/Lube
Local Gauges Inspection
Steam and Oil Flexible Hoses Inspection
Burner Damper Inspection & Testing
Gas Ignitor Operation
Pneumas Valve Inspection

ID FANS

Check and Adjust ID Fan Vanes
ID Fan Vane Drive
ID Fan Discharge Damper Inspection
ID Fan PM Procedure
ID Fan Motor PM Procedure

FD FANS

FD Fan Outlet Damper Inspection
Inspect FD Fan Discharge Damper Drives
Check FD Fan Air Ducts
FD Fan PM Procedure
FD Fan Motor PM Procedure

REGULATORS

Burner Fuel Oil Regulator PM Procedure
Burner Fuel Gas Regulator PM Procedure
Atomizing Steam Regulators PM Procedure

CONTROL AIR SYSTEM

PM Procedure for Air Dryer
Check Control Air Compressor
Operation

INSTRUMENTATION

Calibrate Fuel Flow Indication & Flow
Transmitters
Calibrate Fuel Oil Pressure to Burners
Calibrate Fuel Oil Temperature to Burners
Calibrate Boiler Air Flow
Calibrate O2 Indication
Calibrate Windbox Pressure
Calibrate Furnace Draft
Calibrate FD Duct Pressure



TRIPS AND ALARMS

Check Testing Alarms
Check Low Fuel Oil Pressure Alarm
Check Low Atomizing Steam Pressure Alarm
Check Lo-Lo Fuel Oil Alarm and Trip
Check Lo-Lo Fuel Gas Trips and Alarms
Check Lo-Lo Atomizing Steam Alarms and Trip
Check Hi Furnace Pressure Alarm and Trip

FUEL OIL FARM

Fuel Oil Pump PM Procedure
Fuel Oil Pump Motor PM Procedure

ASTORIA GENERATING STATION
BOILER 50 OPACITY RELATED EQUIPMENT
PREVENTIVE MAINTENANCE ELEMENTS

BURNERS

Oil Gun Inspection (When Burning Oil)
Air Slide External Inspection/Lube
Windbox Damper Drive Inspection/Cal/Lube
Windbox ATC Inspection/Cal Lube
Local Gauges Inspection
Steam and Oil Flexible Hoses Inspection
Burner Damper Inspection & Testing
Gas Ignitor Operation
Pneumas Valve Inspection

ID FANS

Check and Adjust LD Fan Vanes
Check ID Fan Vane Drive
ID Fan Discharge Damper Inspection
LD Fan Inlet Ductwork Inspection
ID Fan PM Procedure
ID Fan Motor PM Procedure

FD FANS

FD Fan Outlet Damper Inspection
Inspect FD Fan Discharge Damper Drives
Check FD Fan Air Ducts
FD Fan PM Procedure
FD Fan Motor PM Procedure

REGULATIONS

Burner Fuel Oil Regulator PM Procedure
Burner Fuel Gas Regulator PM Procedure
Atomizing Steam Regulators PM Procedure

CONTROL AIR SYSTEM



PM Procedure for Air Dryer
Check Control Air Compressor
Operation

INSTRUMENTATION

Calibrate Fuel Flow Indication & Flow
Transmitters
Calibrate Fuel Oil Pressure to Burners
Calibrate Fuel Oil Temperature to Burners
Calibrate Boiler Air Flow
Calibrate O2 Indication
Calibrate Windbox Pressure
Calibrate Furnace Draft
Calibrate FD Duct Pressure

TRIPS AND ALARMS

Check Testing Alarms
Check Low Fuel Oil Pressure Alarm
Check Low Atomizing Steam Pressure Alarm
Check Lo-Lo Fuel Oil Alarm and Trip
Check Lo-Lo Fuel Gas Trips and Alarms
Check Lo-Lo Atomizing Steam Alarms and Trip
Check Hi Furnace Pressure Alarm and Trip

FUEL OIL FARM

Fuel Oil Pump PM Procedure
Fuel Oil Pump Motor PM Procedure

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 33: Compliance Certification
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement:6 NYCRR 227-2.5 (b)

Item 33.1:

The Compliance Certification activity will be performed for the Facility.

Item 33.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Astoria Generating Company's system-wide averaging of NOx emissions from Astoria, Gowanus, and Narrows generating stations must be performed in accordance with the most current version of the NOx RACT System Averaging Plan dated October 2017.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

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Item 36.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-S0002 Process: NG1	Emission Source: 00030
Emission Unit: A-S0002 Process: RO1	Emission Source: 00030
Emission Unit: A-S0003 Process: NG2	Emission Source: 00040
Emission Unit: A-S0003 Process: RO2	Emission Source: 00040
Emission Unit: A-S0004 Process: NG4	Emission Source: 00050
Emission Unit: A-S0004 Process: RO3	Emission Source: 00050

Item 36.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Any electric utility steam generating unit that has the capability of combusting more than 25 MW of coal or oil but does not meet the definition of a coal- or oil-fired EGU because it did not fire sufficient coal or oil to satisfy the average annual heat input requirement set forth in the definitions for coal-fired and oil-fired EGUs in 40 CFR 63.10042 is not subject to the requirements of Subpart UUUUU. Heat input means heat derived from combustion of fuel in an EGU and does not include the heat derived from preheated combustion air, recirculated flue gases or exhaust gases from other sources (such as stationary gas turbines, internal combustion engines, and industrial boilers).

Source owners opting to use this provision must keep records demonstrating compliance with the above requirements.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: ANNUAL TOTAL

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2018.

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



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sufficient SO2 allowance in its possession to cover the SO2 emissions from this facility. The facility must also submit reports as required in the Title IV permit.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 40: Compliance Certification
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement:40 CFR Part 75

Item 40.1:

The Compliance Certification activity will be performed for the Facility.

Item 40.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility shall comply with the reporting and record keeping requirements of 40 CFR Part 75 for Continuous Emission Monitoring.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 41: Compliance Certification
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement:40CFR 97.406, Subpart AAAAA

Item 41.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-S0001

Process: NG3

Emission Source: 00020

Emission Unit: A-S0002

Process: NG1

Emission Source: 00030

Emission Unit: A-S0002

Process: RO1

Emission Source: 00030

Emission Unit: A-S0003

Process: NG2

Emission Source: 00040

Emission Unit: A-S0003

Process: RO2

Emission Source: 00040



Emission Unit: A-S0004
Process: NG4 Emission Source: 00050

Emission Unit: A-S0004
Process: RO3 Emission Source: 00050

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

Item 41.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

- (1) The facility shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§97.413 through 97.418 of Subpart AAAAA. The facility shall notify the Department of this representative (and alternative) with contact information upon issuance of this permit and when any changes are made to the representative (or alternative) or their contact information.
- (2) The facility, and the designated representative, of each TR NOx Annual source (facility) and each TR NOx Annual Unit at the facility shall comply with the monitoring, reporting, and recordkeeping requirements of §§97.430 through 97.435 of Subpart AAAAA and subpart H of part 75 of this chapter. This includes but is not limited to: requirements for installation, certification, and data accounting for all required monitoring systems; requirements for recording, reporting, and quality-assurance of the data; and certification of compliance of such data. Data from continuous emission monitoring equipment are submitted quarterly (calendar year). These reports are generally due 30 days after the end of a calendar quarter. All other monitoring data are submitted to the DEC semiannually (calendar year). These reports are due on January 30th and July 30th of each year.
- (3) The emissions data determined shall be used to calculate allocations of TR NOx Annual allowances and to determine compliance with the TR NOx Annual emissions limitation and assurance provisions. As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NOx Annual facility and each TR NOx Annual Unit at the facility shall hold, in



the facilities compliance account, TR NO_x Annual allowances available for deduction for such control period under §97.424(a) in an amount not less than the tons of total NO_x emissions for such control period from all TR NO_x Annual Units at the facility.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 42: Compliance Certification
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement:40CFR 97.506, Subpart BBBBB

Item 42.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 42.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(1) The facility shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§97.513 through 97.518 of Subpart BBBBB. The facility shall notify the Department of this representative (and alternative) with contact information upon issuance of this permit and when any changes are made to the representative (or alternative) or their contact information.

(2) The facility, and the designated representative, of each TR NO_x Ozone Season source (facility) and each TR NO_x Ozone Season Unit at the facility shall comply with the monitoring, reporting, and recordkeeping requirements of §§97.530 through 97.535 of Subpart BBBBB and subpart H of part 75 of this chapter. This includes but is not limited to: requirements for installation, certification, and data accounting for all required monitoring systems; requirements for recording, reporting, and quality-assurance of the data; and certification of compliance of such data. Data from continuous emission monitoring equipment are submitted quarterly (calendar year). These reports are generally due 30 days after the end of a calendar quarter. All other monitoring data are submitted to the DEC semiannually (calendar year). These reports are due on January 30th and July 30th of each



year.

(3) The emissions data determined shall be used to calculate allocations of TR NO_x Ozone Season allowances and to determine compliance with the TR NO_x Ozone Season emissions limitation and assurance provisions. As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NO_x Ozone Season facility and each TR NO_x Ozone Season Unit at the facility shall hold, in the facilities compliance account, TR NO_x Ozone Season allowances available for deduction for such control period under §97.524(a) in an amount not less than the tons of total NO_x emissions for such control period from all TR NO_x Ozone Season Units at the facility.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 43: Compliance Certification
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement:40CFR 97.606, Subpart CCCCC

Item 43.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 43.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(1) The facility shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§97.613 through 97.618 of Subpart CCCCC. The facility shall notify the Department of this representative (and alternative) with contact information upon issuance of this permit and when any changes are made to the representative (or alternative) or their contact information.

(2) The facility, and the designated representative, of each TR SO₂ Group 1 source (facility) and each TR SO₂ Group 1 Unit at the facility shall comply with the monitoring, reporting, and recordkeeping requirements of §§97.630 through 97.635 of Subpart CCCCC and subpart H of part 75 of this chapter. This includes but is not limited

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to: requirements for installation, certification, and data accounting for all required monitoring systems; requirements for recording, reporting, and quality-assurance of the data; and certification of compliance of such data. Data from continuous emission monitoring equipment are submitted quarterly (calendar year). These reports are generally due 30 days after the end of a calendar quarter. All other monitoring data are submitted to the DEC semiannually (calendar year). These reports are due on January 30th and July 30th of each year.

(3) The emissions data determined shall be used to calculate allocations of TR SO₂ Group 1 allowances and to determine compliance with the TR SO₂ Group 1 emissions limitation and assurance provisions. As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR SO₂ Group 1 facility and each TR SO₂ Group 1 Unit at the facility shall hold, in the facilities compliance account, TR SO₂ Group 1 allowances available for deduction for such control period under §97.624(a) in an amount not less than the tons of total SO₂ emissions for such control period from all TR SO₂ Group 1 Units at the facility.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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

Condition 44: Emission Point Definition By Emission Unit
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 44.1:

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

Emission Unit: A-S0001

Emission Point: 00021

Height (ft.): 299

Diameter (in.): 164

NYTMN (km.): 4515.7

NYTME (km.): 592.5

Building: BOILERHS

Item 44.2:

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

Emission Unit: A-S0002

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Emission Point: 00031
Height (ft.): 299 Diameter (in.): 168
NYTMN (km.): 4515.094 NYTME (km.): 591.559 Building: BOILERHS

Emission Point: 00032
Height (ft.): 299 Diameter (in.): 168
NYTMN (km.): 4515.099 NYTME (km.): 591.566 Building: BOILERHS

Item 44.3:

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

Emission Unit: A-S0003

Emission Point: 00041
Height (ft.): 299 Diameter (in.): 168
NYTMN (km.): 4515.7 NYTME (km.): 592.5 Building: BOILERHS

Emission Point: 00042
Height (ft.): 299 Diameter (in.): 168
NYTMN (km.): 4515.7 NYTME (km.): 592.5 Building: BOILERHS

Item 44.4:

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

Emission Unit: A-S0004

Emission Point: 00051
Height (ft.): 299 Diameter (in.): 168
NYTMN (km.): 4515.134 NYTME (km.): 591.612 Building: BOILERHS

Emission Point: 00052
Height (ft.): 299 Diameter (in.): 168
NYTMN (km.): 4515.139 NYTME (km.): 591.619 Building: BOILERHS

Item 44.5:

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

Emission Unit: A-S0005

Emission Point: GT001
Height (ft.): 28 Length (in.): 92 Width (in.): 120
NYTMN (km.): 4515.7 NYTME (km.): 592.5 Building: GTFAC

Condition 45: Process Definition By Emission Unit

Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 45.1:

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

Emission Unit: A-S0001

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

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

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

Item 45.4:

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

Emission Unit: A-S0002
Process: RO1 Source Classification Code: 1-01-004-01
Process Description:

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

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

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

Item 45.5:



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

Emission Unit: A-S0003
Process: NG2 Source Classification Code: 1-01-006-04
Process Description:

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

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

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

Item 45.6:

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

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

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

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

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



Item 45.7:

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

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

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

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

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

Item 45.8:

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

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

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

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

Emission Source/Control: 00050 - Combustion

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Design Capacity: 4,094 million Btu per hour

Item 45.9:

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

Emission Unit: A-S0005

Process: GTN

Source Classification Code: 2-01-002-01

Process Description:

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

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

Emission Source/Control: GT001 - Combustion

Design Capacity: 243 million Btu per hour

Item 45.10:

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

Emission Unit: A-S0005

Process: SD1

Source Classification Code: 2-02-001-01

Process Description:

600 Hp Starter engine(for GT001) burning Ultral low sulfur diesel(0.0015%%sulfur by weight). The starter engine is exhausted through the same stak as GT001.

Emission Source/Control: 00SD1 - Combustion

Design Capacity: 600 horsepower (electric)

Condition 46: Process Permissible Emissions

Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 46.1:

The sum of emissions from the regulated process cited shall not exceed the following Potential to Emit (PTE) rates for each regulated contaminant:

Emission Unit:

A-S0002

Process:

NG1

CAS No: 000630-08-0

Name: CARBON MONOXIDE

PTE(s): 328 pounds per hour

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CAS No: 0NY075-00-0

Name: PARTICULATES

PTE(s): 409 pounds per hour

0.1 pounds per million Btus

3,600,000 pounds per year

Emission Unit: A-S0004

Process: RO3

CAS No: 0NY075-00-0

Name: PARTICULATES

PTE(s): 409 pounds per hour

0.1 pounds per million Btus

3,600,000 pounds per year

Emission Unit: A-S0005

Process: GTN

CAS No: 0NY075-00-0

Name: PARTICULATES

PTE(s): 10 pounds per hour

0.042 pounds per million Btus

89,000 pounds per year

Emission Unit: A-S0002

Process: NG1

CAS No: 0NY075-00-5

Name: PM-10

PTE(s): 225 pounds per hour

0.07 pounds per million Btus

1,971,000 pounds per year

Emission Unit: A-S0002

Process: RO1

CAS No: 0NY075-00-5

Name: PM-10

PTE(s): 225 pounds per hour

0.07 pounds per million Btus

1,971,000 pounds per year

Emission Unit: A-S0004

Process: NG4

CAS No: 0NY075-00-5

Name: PM-10

PTE(s): 225 pounds per hour

0.07 pounds per million Btus

1,971,000 pounds per year

Emission Unit: A-S0004

Process: RO3

CAS No: 0NY075-00-5

Name: PM-10

PTE(s): 225 pounds per hour

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0.07 pounds per million Btus
1,971,000 pounds per year

Emission Unit: A-S0005 Process: GTN

CAS No: 0NY075-00-5

Name: PM-10

PTE(s): 10 pounds per hour

0.042 pounds per million Btus
89,000 pounds per year

Condition 47: Compliance Certification
Effective between the dates of 04/25/2018 and 04/24/2023

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

Item 47.1:

The Compliance Certification activity will be performed for:

Emission Unit: A-S0001

Item 47.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

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

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

The permittee will conduct observations of visible emissions from the emission unit, process, etc. to which this condition applies at the monitoring frequency stated below while the process is in operation. The permittee will investigate, in a timely manner, any instance where there is cause to believe that visible emissions have the potential to exceed the opacity standard.

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

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

Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Reference Test Method: EPA Method 9
Monitoring Frequency: DAILY
Averaging Method: 6-MINUTE AVERAGE (METHOD 9)
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2018.
Subsequent reports are due every 6 calendar month(s).

Condition 48: Compliance Certification
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement: 6 NYCRR 227-2.6 (a) (1)

Item 48.1:
The Compliance Certification activity will be performed for:

Emission Unit: A-S0001

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

Item 48.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator shall measure Boiler 20 NOx emissions with a continuous emissions monitoring system (CEMS) as described in 6NYCRR 227-2.6(b).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2018.

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

Condition 49: Compliance Certification
Effective between the dates of 04/25/2018 and 04/24/2023



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

Item 49.1:

The Compliance Certification activity will be performed for:

Emission Unit: A-S0001

Process: 005

Emission Source: AB002

Regulated Contaminant(s):

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

Item 49.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

NOx RACT limit for the auxiliary boiler is 0.05
lb/MMBtu.

The Compliance with this NOx limit shall be demonstrated
through emission testing in accordance with 6 NYCRR Part
227-2.6(c), once during the term of the permit.

All emission tests shall be performed using Department
approved stack test protocols which must be submitted at
least 30 days prior to emission testing.

Upper Permit Limit: 0.05 pounds per million Btus

Reference Test Method: 40 CFR 60 Appendix A Methods 7E

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2018.

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

Condition 50: Compliance Certification

Effective between the dates of 04/25/2018 and 04/24/2023

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

Item 50.1:

The Compliance Certification activity will be performed for:

Emission Unit: A-S0001

Process: 005

Emission Source: AB002

Item 50.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

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Monitoring Description:

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

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

Monitoring Frequency: SINGLE OCCURRENCE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 51: Compliance Certification

Effective between the dates of 04/25/2018 and 04/24/2023

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

Item 51.1:

The Compliance Certification activity will be performed for:

Emission Unit: A-S0001

Process: 005

Emission Source: AB002

Item 51.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day.

Monitoring Frequency: DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2018.

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

Condition 52: Compliance Certification

Effective between the dates of 04/25/2018 and 04/24/2023



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

Item 52.1:

The Compliance Certification activity will be performed for:

Emission Unit: A-S0001

Process: 005

Emission Source: AB002

Item 52.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

All records required under this section shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record, for determining compliance with the NSPS requirements.

**** NOTE**** Records shall be maintained for a minimum of five years to achieve compliance with the requirements of Title V.

Monitoring Frequency: SEMI-ANNUALLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2018.

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

Condition 53: Capping Monitoring Condition

Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 53.1:

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

6 NYCRR Subpart 231-2

Item 53.2:

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

Item 53.3:

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

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other state and federal air pollution control requirements, regulations or law.

Item 53.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 53.5:

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

Item 53.6:

The Compliance Certification activity will be performed for:

Emission Unit: A-S0001

Process: NG3

Emission Source: 00020

Regulated Contaminant(s):

CAS No: 000630-08-0

CARBON MONOXIDE

Item 53.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

he facility must maintain the following records on a daily basis in order to demonstrate compliance with the CO emission limit for Boiler 20 (Emission Source 00020):

1: daily CO emissions (12:00 midnight to the following midnight); and

2: total CO emissions over the previous 365-day period.

The Regional Air Pollution Control Engineer must be notified in writing within 10 working days of any contravention of the CO emission limit.

Manufacturer Name/Model Number: CEM

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 98 tons per year

Reference Test Method: EPA approved

Monitoring Frequency: CONTINUOUS

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

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Reports due 30 days after the reporting period.
The initial report is due 7/30/2018.
Subsequent reports are due every 6 calendar month(s).

Condition 54: Capping Monitoring Condition
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 54.1:

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

6 NYCRR Subpart 231-2

Item 54.2:

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

Item 54.3:

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

Item 54.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 54.5:

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

Item 54.6:

The Compliance Certification activity will be performed for:

Emission Unit: A-S0001

Process: NG3

Emission Source: 00020

Regulated Contaminant(s):

CAS No: 0NY210-00-0

OXIDES OF NITROGEN

Item 54.7:

Compliance Certification shall include the following monitoring:

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Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The facility must maintain the following records on a daily basis in order to demonstrate compliance with the NOx emission limit for Boiler 20 (Emission Source 00020):

1. Daily NOx emissions (12:00 midnight to the following midnight); and
2. Total NOx emissions over the previous 365-day period.

The Regional Air Pollution Control Engineer must be notified in writing within 10 working days of any contravention of the NOx emission limit.

Manufacturer Name/Model Number: CEM

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 110 tons per year

Reference Test Method: EPA approved

Monitoring Frequency: CONTINUOUS

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2018.

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

Condition 55: Capping Monitoring Condition
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 55.1:

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

40 CFR 52.21

Item 55.2:

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

Item 55.3:

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

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other state and federal air pollution control requirements, regulations or law.

Item 55.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 55.5:

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

Item 55.6:

The Compliance Certification activity will be performed for:

Emission Unit: A-S0001

Process: NG3

Emission Source: 00020

Regulated Contaminant(s):

CAS No: ONY075-00-5 PM-10

Item 55.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

PM-10 emissions from this emission source (Boiler 20) are limited to 29,000 pounds per year, on a 12-month rolling basis, so that the project will not be subject to 40 CFR 52 (PSD). A stack test shall be performed to confirm appropriate emission factors for PM-10 so that the PTE of PM-10 from this emission source can be determined and appropriate record keeping requirements for the emission cap ascertained.

The owner and/or operator shall submit a stack test protocol to the Department, for review, indicating the test procedures to be used to sample PM-10 emissions from this source and how the source will be operated during the test. Within 90 days of approval of the test protocol by the Department, the stack test must be conducted. Within 60 days following completion of the test, a test report must be submitted to the Department for its review.

Parameter Monitored: PM-10

Upper Permit Limit: 29,000 pounds per year

Reference Test Method: TO BE DETERMINED

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

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Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 56: Capping Monitoring Condition
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 56.1:

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

40 CFR 52.21

Item 56.2:

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

Item 56.3:

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

Item 56.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 56.5:

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

Item 56.6:

The Compliance Certification activity will be performed for:

Emission Unit: A-S0001

Process: NG3

Emission Source: 00020

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 56.7:

Compliance Certification shall include the following monitoring:

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Capping: Yes

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

Monitoring Description:

Particulate emissions from Boiler 20 (Emission Source 00020) are limited to 49,000 pounds per year, on a 12-month rolling basis, so that the project will not be subject to 40 CFR 52 (PSD). Compliance with this emission cap limit shall be demonstrated by maintaining records of the amount of fuel fired and corresponding emissions, based on accepted emission factors for Particulates derived from an initial stack test. Emission calculations will be performed in a manner acceptable to the Department.

As per Part 201-7.2(e), on an annual basis, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated the emission unit within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the emission limit.

Process Material: NATURAL GAS

Parameter Monitored: PARTICULATES

Upper Permit Limit: 49,000 pounds per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2018.

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

Condition 57: Capping Monitoring Condition
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 57.1:

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

40 CFR 52.21

Item 57.2:

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

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Item 57.3:

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

Item 57.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 57.5:

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

Item 57.6:

The Compliance Certification activity will be performed for:

Emission Unit: A-S0001

Process: NG3

Emission Source: 00020

Regulated Contaminant(s):

CAS No: 007446-09-5

SULFUR DIOXIDE

Item 57.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

The SO₂ emissions from Boiler 20 (Emission Source 00020) are limited to 79,000 pounds or less during any consecutive 12 month period as determined using the following equation:

$$\text{(Total MMcf natural gas burned in a 12-month period)}(0.6 \text{ lb SO}_2/\text{MMcf}) = \text{lbs SO}_2/12 \text{ months} < 79,000 \text{ lbs SO}_2$$

The emission factor used in the above equation (0.6 lb SO₂/MMcf natural gas) is from the USEPA Compilation of Air Pollution Emission Factors (AP-42) Volume I, July 1998, Table 1.4-2.

Compliance with this SO₂ emission cap limit shall be demonstrated by maintaining records of the amount of fuel fired and corresponding emissions, based on accepted

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Emission Unit: A-S0001
Process: 005

Emission Point: 00021
Emission Source: AB002

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

Item 58.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

The auxiliary Boiler AB002 NO_x emissions are limited to 1.96 tons per year. The annual total NO_x emission shall be calculated using fuel usage and the most recent stack test results.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 1.96 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2018.

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

Condition 59: Compliance Certification

Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement: 6 NYCRR 227-2.6 (a) (1)

Item 59.1:

The Compliance Certification activity will be performed for:

Emission Unit: A-S0002

Item 59.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator shall measure Boiler 30 NO_x emissions with a continuous emissions monitoring system (CEMS) as described in 6NYCRR 227-2.6(b).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2018.

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

Condition 60: Compliance Certification
Effective between the dates of 04/25/2018 and 04/24/2023

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

Item 60.1:

The Compliance Certification activity will be performed for:

Emission Unit: A-S0002

Process: RO1

Emission Source: 00030

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 60.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

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

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

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

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: EPA RM 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE



Condition 61: Compliance Certification
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement: 6 NYCRR 227-1.3

Item 61.1:

The Compliance Certification activity will be performed for:

Emission Unit: A-S0002

Emission Point: 00031

Item 61.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Stack opacity shall not exceed 20 percent (six minute average), except for one six-minute period per hour of not more than 27 percent opacity. Compliance with this standard shall be determined by Continuous Opacity Monitoring System (COMS) data. The owner shall install, operate in accordance with manufacturer's instructions, and properly maintain, a COMS in the stack satisfying the criteria in Appendix B of 40 CFR part 60.

The owner shall submit an accurate excess emissions and monitoring system performance report to the Department for each calendar year quarter. All reports shall be certified by a responsible corporate official as true, accurate and complete and post marked by the 60th day following the end of each calendar year quarter. The quarterly excess emissions report shall be submitted in a form acceptable to the Department and shall include the following minimum information:

- (1) The magnitude, date and time of each six minute block average during which the average opacity of emissions exceeds 20 percent, except for one six minute block average per hour not to exceed 27 percent;
- (2) For each period of excess emissions, specific identification of the cause and corrective action taken;
- (3) Identification of all periods of COMS down time, including the date, time and duration of each inoperable period, and the cause and corrective action for each COMS down time period;
- (4) The total time in which the COMS are required to record data during the reporting period;

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(5) The total number of exceedences and the duration of exceedences expressed as a percentage of the total time which the COMS are required to record data.

Manufacturer Name/Model Number: Land 4500 Mark II (COMS)

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: 40 CFR 60 APP B

Monitoring Frequency: CONTINUOUS

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 8/29/2018.

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

Condition 62: Compliance Certification
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement: 6 NYCRR 227-1.3

Item 62.1:

The Compliance Certification activity will be performed for:

Emission Unit: A-S0002

Emission Point: 00032

Item 62.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Stack opacity shall not exceed 20 percent (six minute average), except for one six-minute period per hour of not more than 27 percent opacity. Compliance with this standard shall be determined by Continuous Opacity Monitoring System (COMS) data. The owner shall install, operate in accordance with manufacturer's instructions, and properly maintain, a COMS in the stack satisfying the criteria in Appendix B of 40 CFR part 60.

The owner shall submit an accurate excess emissions and monitoring system performance report to the Department for each calendar year quarter. All reports shall be certified by a responsible corporate official as true, accurate and complete and post marked by the 60th day following the end of each calendar year quarter. The quarterly excess emissions report shall be submitted in a form acceptable to the Department and shall include the following minimum information:

(1) The magnitude, date and time of each six minute block average during which the average opacity of emissions exceeds 20 percent, except for one six minute block

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average per hour not to exceed 27 percent;

(2) For each period of excess emissions, specific identification of the cause and corrective action taken;

(3) Identification of all periods of COMS down time, including the date, time and duration of each inoperable period, and the cause and corrective action for each COMS down time period;

(4) The total time in which the COMS are required to record data during the reporting period;

(5) The total number of exceedences and the duration of exceedences expressed as a percentage of the total time which the COMS are required to record data.

Manufacturer Name/Model Number: Land 4500 Mark II (COMS)

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: 40 CFR 60 APP B

Monitoring Frequency: CONTINUOUS

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 8/29/2018.

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

Condition 63: Capping Monitoring Condition
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 63.1:

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

6 NYCRR Subpart 231-6

Item 63.2:

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

Item 63.3:

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

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

6 NYCRR Subpart 231-6

Item 64.2:

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

Item 64.3:

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

Item 64.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 64.5:

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

Item 64.6:

The Compliance Certification activity will be performed for:

Emission Unit: A-S0003

Regulated Contaminant(s):

CAS No: 0NY075-02-5 PM 2.5

Item 64.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

Boiler 40 PM2.5 emissions are limited to 32.7 tons per year.

Facility should calculate Boiler 40 PM2.5 emissions using the most recently approved stack test emission data to demonstrate the compliance with this cap.

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

Item 65.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

Boiler 40 PM-10 emissions are limited to 34.6 tons per year.

Facility should calculate Boiler 40 PM-10 emissions using the most recently approved stack test emission data to demonstrate the compliance with this cap.

Parameter Monitored: PM-10

Upper Permit Limit: 34.6 tons per year

Reference Test Method: EPA approved

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL TOTAL ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2018.

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

Condition 66: Capping Monitoring Condition
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 66.1:

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

6 NYCRR 231-6.1

Item 66.2:

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

Item 66.3:

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

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Item 66.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 66.5:

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

Item 66.6:

The Compliance Certification activity will be performed for:

Emission Unit: A-S0003

Regulated Contaminant(s):

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

Item 66.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Boiler 40 Nox emission are limited to 229.9 tons per year.

Facility should calculate Boiler 40 NOx emissions using CEM emission data to demonstrate the compliance with this cap. Facility shall keep records on site demonstrating compliance with the emission cap.

Manufacturer Name/Model Number: CEM

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 229.9 tons per year

Reference Test Method: EPA Approved

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2018.

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

Condition 67: Compliance Certification

Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement: 6 NYCRR 227-2.6 (a) (1)

Item 67.1:

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The Compliance Certification activity will be performed for:

Emission Unit: A-S0003

Item 67.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator shall measure Boiler 40 NOx emissions with a continuous emissions monitoring system (CEMS) as described in 6NYCRR 227-2.6(b).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2018.

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

Condition 68: Compliance Certification
Effective between the dates of 04/25/2018 and 04/24/2023

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

Item 68.1:

The Compliance Certification activity will be performed for:

Emission Unit: A-S0003

Process: RO2

Emission Source: 00040

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 68.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

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

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

1) Submit to the Department an acceptable protocol for the testing of particulate emissions in a manner that will determine compliance with the limit cited in this condition.

2) Perform a stack test, based upon the approved test

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protocol, to determine compliance with the particulate emission limit cited in this condition.

3) Submit an acceptable stack test report that outlines the results obtained from the testing done to meet the requirement of #2 above.

4) Facility shall keep records of all testing done at this stationary combustion installation for a period of 5 years.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: EPA RM 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 69: Compliance Certification
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement: 6 NYCRR 227-1.3

Item 69.1:

The Compliance Certification activity will be performed for:

Emission Unit: A-S0003

Emission Point: 00041

Item 69.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Stack opacity shall not exceed 20 percent (six minute average), except for one six-minute period per hour of not more than 27 percent opacity. Compliance with this standard shall be determined by Continuous Opacity Monitoring System (COMS) data. The owner shall install, operate in accordance with manufacturer's instructions, and properly maintain, a COMS in the stack satisfying the criteria in Appendix B of 40 CFR part 60.

The owner shall submit an accurate excess emissions and monitoring system performance report to the Department for each calendar year quarter. All reports shall be certified by a responsible corporate official as true, accurate and complete and post marked by the 60th day following the end of each calendar year quarter. The quarterly excess emissions report shall be submitted in a form acceptable to the Department and shall include the following minimum information:



- (1) The magnitude, date and time of each six minute block average during which the average opacity of emissions exceeds 20 percent, except for one six minute block average per hour not to exceed 27 percent;
- (2) For each period of excess emissions, specific identification of the cause and corrective action taken;
- (3) Identification of all periods of COMS down time, including the date, time and duration of each inoperable period, and the cause and corrective action for each COMS down time period;
- (4) The total time in which the COMS are required to record data during the reporting period;
- (5) The total number of exceedences and the duration of exceedences expressed as a percentage of the total time which the COMS are required to record data.

Manufacturer Name/Model Number: Land 4500 Mark II (COMS)
Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Reference Test Method: 40 CFR 60 APP B
Monitoring Frequency: CONTINUOUS
Averaging Method: 6 MINUTE AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 60 days after the reporting period.
The initial report is due 8/29/2018.
Subsequent reports are due every 3 calendar month(s).

Condition 70: Compliance Certification
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement: 6 NYCRR 227-1.3

Item 70.1:
The Compliance Certification activity will be performed for:

Emission Unit: A-S0003 Emission Point: 00042

Item 70.2:
Compliance Certification shall include the following monitoring:

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

Stack opacity shall not exceed 20 percent (six minute average), except for one six-minute period per hour of not more than 27 percent opacity. Compliance with this standard shall be determined by Continuous Opacity

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Monitoring System (COMS) data. The owner shall install, operate in accordance with manufacturer's instructions, and properly maintain, a COMS in the stack satisfying the criteria in Appendix B of 40 CFR part 60.

The owner shall submit an accurate excess emissions and monitoring system performance report to the Department for each calendar year quarter. All reports shall be certified by a responsible corporate official as true, accurate and complete and post marked by the 60th day following the end of each calendar year quarter. The quarterly excess emissions report shall be submitted in a form acceptable to the Department and shall include the following minimum information:

- (1) The magnitude, date and time of each six minute block average during which the average opacity of emissions exceeds 20 percent, except for one six minute block average per hour not to exceed 27 percent;
- (2) For each period of excess emissions, specific identification of the cause and corrective action taken;
- (3) Identification of all periods of COMS down time, including the date, time and duration of each inoperable period, and the cause and corrective action for each COMS down time period;
- (4) The total time in which the COMS are required to record data during the reporting period;
- (5) The total number of exceedences and the duration of exceedences expressed as a percentage of the total time which the COMS are required to record data.

Manufacturer Name/Model Number: Land 4500 Mark II (COMS)

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: 40 CFR 60 APP B

Monitoring Frequency: CONTINUOUS

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 8/29/2018.

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

Condition 71: Compliance Certification
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement: 6 NYCRR 227-2.6 (a) (1)

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Item 71.1:

The Compliance Certification activity will be performed for:

Emission Unit: A-S0004

Item 71.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator shall measure Boiler 50 NOx emissions with a continuous emissions monitoring system (CEMS) as described in 6NYCRR 227-2.6(b).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2018.

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

Condition 72: Compliance Certification

Effective between the dates of 04/25/2018 and 04/24/2023

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

Item 72.1:

The Compliance Certification activity will be performed for:

Emission Unit: A-S0004

Process: RO3

Emission Source: 00050

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 72.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

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

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

- 1) Submit to the Department an acceptable protocol for the testing of particulate emissions in a manner that will determine compliance with the limit cited in this condition.

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2) Perform a stack test, based upon the approved test protocol, to determine compliance with the particulate emission limit cited in this condition.

3) Submit an acceptable stack test report that outlines the results obtained from the testing done to meet the requirement of #2 above.

4) Facility shall keep records of all testing done at this stationary combustion installation for a period of 5 years.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: EPA RM 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 73: Compliance Certification
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement: 6 NYCRR 227-1.3

Item 73.1:

The Compliance Certification activity will be performed for:

Emission Unit: A-S0004

Emission Point: 00051

Item 73.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Stack opacity shall not exceed 20 percent (six minute average), except for one six-minute period per hour of not more than 27 percent opacity. Compliance with this standard shall be determined by Continuous Opacity Monitoring System (COMS) data. The owner shall install, operate in accordance with manufacturer's instructions, and properly maintain, a COMS in the stack satisfying the criteria in Appendix B of 40 CFR part 60.

The owner shall submit an accurate excess emissions and monitoring system performance report to the Department for each calendar year quarter. All reports shall be certified by a responsible corporate official as true, accurate and complete and post marked by the 60th day following the end of each calendar year quarter. The quarterly excess emissions report shall be submitted in a form acceptable to the Department and shall include the



following minimum information:

- (1) The magnitude, date and time of each six minute block average during which the average opacity of emissions exceeds 20 percent, except for one six minute block average per hour not to exceed 27 percent;
- (2) For each period of excess emissions, specific identification of the cause and corrective action taken;
- (3) Identification of all periods of COMS down time, including the date, time and duration of each inoperable period, and the cause and corrective action for each COMS down time period;
- (4) The total time in which the COMS are required to record data during the reporting period;
- (5) The total number of exceedences and the duration of exceedences expressed as a percentage of the total time which the COMS are required to record data.

Manufacturer Name/Model Number: Land 4500 Mark II (COMS)
Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Reference Test Method: 40 CFR 60 APP B
Monitoring Frequency: CONTINUOUS
Averaging Method: 6 MINUTE AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 60 days after the reporting period.
The initial report is due 8/29/2018.
Subsequent reports are due every 3 calendar month(s).

Condition 74: Compliance Certification
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement: 6 NYCRR 227-1.3

Item 74.1:

The Compliance Certification activity will be performed for:

Emission Unit: A-S0004

Emission Point: 00052

Item 74.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Stack opacity shall not exceed 20 percent (six minute average), except for one six-minute period per hour of not more than 27 percent opacity. Compliance with this

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standard shall be determined by Continuous Opacity Monitoring System (COMS) data. The owner shall install, operate in accordance with manufacturer's instructions, and properly maintain, a COMS in the stack satisfying the criteria in Appendix B of 40 CFR part 60.

The owner shall submit an accurate excess emissions and monitoring system performance report to the Department for each calendar year quarter. All reports shall be certified by a responsible corporate official as true, accurate and complete and post marked by the 60th day following the end of each calendar year quarter. The quarterly excess emissions report shall be submitted in a form acceptable to the Department and shall include the following minimum information:

- (1) The magnitude, date and time of each six minute block average during which the average opacity of emissions exceeds 20 percent, except for one six minute block average per hour not to exceed 27 percent;
- (2) For each period of excess emissions, specific identification of the cause and corrective action taken;
- (3) Identification of all periods of COMS down time, including the date, time and duration of each inoperable period, and the cause and corrective action for each COMS down time period;
- (4) The total time in which the COMS are required to record data during the reporting period;
- (5) The total number of exceedences and the duration of exceedences expressed as a percentage of the total time which the COMS are required to record data.

Manufacturer Name/Model Number: Land 4500 Mark II (COMS)

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: 40 CFR 60 APP B

Monitoring Frequency: CONTINUOUS

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 8/29/2018.

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

Condition 75: Compliance Certification
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement: 6 NYCRR 227-2.6

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Item 75.1:

The Compliance Certification activity will be performed for:

Emission Unit: A-S0005

Regulated Contaminant(s):

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

Item 75.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Stack testing shall be performed 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 Astoria Generating Company. All stack testing shall be done in accordance with 6NYCRR 227-2.6(c).

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 76: Compliance Certification

Effective between the dates of 04/25/2018 and 04/24/2023

Applicable Federal Requirement:6 NYCRR 227-2.6

Item 76.1:

The Compliance Certification activity will be performed for:

Emission Unit: A-S0005

Regulated Contaminant(s):

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

Item 76.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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, semi-annually to the Department, at the following address:

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



Att: Regional Air Pollution Control
Engineer

The information on the Starter Engine, provided to the applicant by the engine manufacturer, is attached to this permit and constitutes an enforceable part of the permit.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2018.

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



STATE ONLY ENFORCEABLE CONDITIONS
****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS
This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: Emergency Defense - 6 NYCRR 201-1.5

An emergency, as defined by subpart 201-2, constitutes an affirmative defense to penalties sought in an enforcement action brought by the Department 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 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 and maintained;

(3) During the period of the emergency the facility owner 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 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 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: General Provisions for State Enforceable Permit Terms and Condition - 6 NYCRR Part 201-5

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and



standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

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

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state applicable requirements and are not subject to compliance certification requirements unless otherwise noted or required under 6 NYCRR Part 201.

Condition 77: Contaminant List
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable State Requirement:ECL 19-0301

Item 77.1:

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

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

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

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

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

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

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

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



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

Condition 80: Compliance Demonstration
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable State Requirement: 6 NYCRR 242-1.5

Item 80.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 80.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

(2) Each ton of CO₂ emitted in excess of the CO₂ budget emissions limitation shall constitute a separate violation of this Part and applicable state law.

(3) A CO₂ budget unit shall be subject to the requirements specified in item 1 starting on the later, of January 1, 2009 or the date on which the unit commences operation.

(4) CO₂ allowances shall be held in, deducted from, or transferred among CO₂ Allowance Tracking System accounts in accordance with Subparts 242-5, 242-6, and 242-7, and Section 242-10.7.

(5) A CO₂ allowance shall not be deducted, in order to



comply with the requirements specified in item 1, for a control period that ends prior to the allocation year for which the CO2 allowance was allocated. A CO2 offset allowance shall not be deducted, in order to comply with the requirements under item 1, beyond the applicable percent limitations set out in 6NYCRR Part 242-6.5(a)(3).

(6) A CO2 allowance under the CO2 Budget Trading Program is a limited authorization by the Department or a participating state to emit one ton of CO2 in accordance with the CO2 Budget Trading Program. No provision of the CO2 Budget Trading Program, the CO2 budget permit application, or the CO2 budget permit or any provision of law shall be construed to limit the authority of the Department or a participating state to terminate or limit such authorization.

(7) A CO2 allowance under the CO2 Budget Trading Program does not constitute a property right.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2018.

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

Condition 81: Compliance Demonstration
Effective between the dates of 04/25/2018 and 04/24/2023

Applicable State Requirement:6 NYCRR 242-1.5

Item 81.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 81.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owners and operators of the CO2 budget source and each CO2 budget unit at the source shall keep on site at the source each of the following documents for a period of 10 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 10 years, in writing by the department.

(i) The account certificate of representation for the CO2 authorized account representative for the source and each CO2 budget unit at the source and all documents that demonstrate the truth of the statements in the account



certificate of representation, in accordance with 6 NYCRR Part 242-2.4, provided that the certificate and documents shall be retained on site at the source beyond such 10-year period until such documents are superseded because of the submission of a new account certificate of representation.

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

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

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

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2018.

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