

Facility DEC ID: 2630100185

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

**IDENTIFICATION INFORMATION**

Permit Type: Air Title V Facility  
Permit ID: 2-6301-00185/00009  
Mod 0 Effective Date: 04/25/2018 Expiration Date: 04/24/2023  
Mod 1 Effective Date: 09/14/2022 Expiration Date: 04/24/2023

Permit Issued To: ASTORIA GENERATING COMPANY LP  
c/o EASTERN GENERATION LLC  
300 ATLANTIC ST FL 5  
STAMFORD, CT 06901

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) is a power plant with a total electric generating capacity of approximately 932 MW. This application for Permit Modification is submitted to authorize the following:

- Use of Ultra-Low Sulfur Diesel Fuel (ULSD) (distillate oil with 0.0015 percent sulfur by weight or less) in Boiler 30 and Boiler 50 instead of residual oil. The emission increases due to the fuel change is net zero based on the past actual to future projected actual calculations, and therefore, did not result in a 6 NYCRR Part 231 modification.
- The retirement of boiler 40
- The inclusion of conditions pertaining to applicable portions of 6 NYCRR Part 242 (units greater than 15 MWs) and 6 NYCRR Part 251.

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The facility consists of one natural gas fired very large boiler of 1,795 MMBtu/hr (Boiler 20), one natural gas fired small auxiliary boiler of 37.8mmbtu/hr, one natural gas & distillate oil fired very large boiler of 3,984 MMBtu/hr ( Boiler 30), one natural gas & distillate oil fired very large boiler of 4,094 MMBtu/hr (Boiler 50), one natural gas fired 243 MMBtu/hr GE Model 5000L simple-cycle combustion turbine (GT001) and one 600 hp diesel starter engine.

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: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

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### 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.

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**Facility Level**

- 6 5 Submission of application for permit modification or renewal -  
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**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

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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

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

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

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c/o EASTERN GENERATION LLC  
300 ATLANTIC ST FL 5  
STAMFORD, CT 06901

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

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

Mod 0 Permit Effective Date: 04/25/2018

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- 41 1-19 40CFR 52.21, Subpart A: Compliance Certification
- 42 1-20 40CFR 52.21, Subpart A: Compliance Certification
- 43 1-21 40CFR 63.7540(a)(10), Subpart DDDDD: Compliance Certification
- 45 1-22 40CFR 63.9983(c), Subpart UUUUU: Compliance Certification
- 46 37 40CFR 63, Subpart ZZZZ: Applicability
- 46 39 40 CFR Part 72: Compliance Certification
- 46 40 40 CFR Part 75: Compliance Certification
- 47 1-23 40CFR 97.406, Subpart AAAAA: Compliance Certification
- 48 42 40CFR 97.506, Subpart BBBB: Compliance Certification
- 49 43 40CFR 97.606, Subpart CCCCC: Compliance Certification

**Emission Unit Level**

- 51 44 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 51 45 6 NYCRR Subpart 201-6: Process Definition By Emission Unit

**EU=A-S0001**

- 54 48 6 NYCRR 227-2.6 (a) (1): Compliance Certification

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

- 55 49 6 NYCRR 227-2.4 (c): Compliance Certification
- 55 50 40CFR 60.48c(a), NSPS Subpart Dc: Compliance Certification
- 56 51 40CFR 60.48c(g), NSPS Subpart Dc: Compliance Certification
- 57 52 40CFR 60.48c(i), NSPS Subpart Dc: Compliance Certification

**EU=A-S0002**

- 57 59 6 NYCRR 227-2.6 (a) (1): Compliance Certification

**EU=A-S0004**

- 58 71 6 NYCRR 227-2.6 (a) (1): Compliance Certification

**EU=A-S0005**

- 58 75 6 NYCRR 227-2.6: Compliance Certification
- 59 76 6 NYCRR 227-2.6: Compliance Certification

**EU=A-S0005,EP=GT001,Proc=GTN,ES=GT001**

- 59 1-24 6 NYCRR 227-3.5 (a): Compliance Certification

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- 62 77 ECL 19-0301: Contaminant List
- 63 1-25 6 NYCRR 201-1.4: Malfunctions and Start-up/Shutdown Activities
- 63 1-26 6 NYCRR 201-6.5 (a): CLCPA Applicability
- 64 28 6 NYCRR 211.1: Air pollution prohibited
- 64 79 6 NYCRR 242-1.5: CO2 Budget Trading Program - Excess emission requirements
- 64 80 6 NYCRR 242-1.5: Compliance Demonstration
- 66 81 6 NYCRR 242-1.5: Compliance Demonstration
- 67 1-27 6 NYCRR 251.3 (b): Compliance Demonstration
- 68 1-28 6 NYCRR 251.6 (f): Compliance Demonstration

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- 69 1-29 6 NYCRR 251.3 (b): Compliance Demonstration

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**FEDERALLY ENFORCEABLE CONDITIONS**

Renewal 3/Mod 1/FINAL

\*\*\*\* 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

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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

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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

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is to be reopened, except that the Department may provide a shorter time period in the case of an emergency.

**Item K: Permit Exclusion - ECL 19-0305**

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

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

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

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

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

**Condition 1: Acceptable Ambient Air Quality  
Effective between the dates of 04/25/2018 and 04/24/2023****Applicable Federal Requirement: 6 NYCRR 200.6****Item 1.1:**

Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where

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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

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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,

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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



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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

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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:

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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 0 days after the reporting period.  
The initial report is due 4/15/2019.  
Subsequent reports are due every 12 calendar month(s).

**Condition 1-1: Recordkeeping requirements**  
**Effective between the dates of 09/14/2022 and 04/24/2023**

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

- Item 1-1.1:**
- (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 8: Recordkeeping requirements**  
**Effective between the dates of 04/25/2018 and 04/24/2023**

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**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

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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 1-2: Maintenance of Equipment**  
**Effective between the dates of 09/14/2022 and 04/24/2023**

**Applicable Federal Requirement:6 NYCRR 200.7**

**Item 1-2.1:**

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**

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**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**

**Applicable Federal Requirement:6 NYCRR 201-3.3 (a)****Item 14.1:**

The owner or operator of an emission source or activity that is listed as being trivial in this Section 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 required records on-site for a period of five years and make them available to representatives of the department upon request.

**Condition 15: Requirement to Provide Information**  
**Effective between the dates of 04/25/2018 and 04/24/2023**

**Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (4)****Item 15.1:**

The owner and/or operator shall furnish to the department, within a reasonable time, any information that the department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the department copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the administrator along with a claim of confidentiality, if the administrator initiated the request for information or otherwise has need of it.

**Condition 16: Right to Inspect**  
**Effective between the dates of 04/25/2018 and 04/24/2023**

**Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (8)**

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**Item 16.1:**

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

- (i) enter upon the permittee's premises where a facility subject to the permitting requirements of this Subpart is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
- (ii) have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- (iii) inspect at reasonable times any emission sources, equipment (including monitoring and air pollution control equipment), practices, and operations regulated or required under the permit; and
- (iv) sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

**Condition 18: Required Emissions Tests**  
**Effective between the dates of 04/25/2018 and 04/24/2023**

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

**Item 18.1:**

For the purpose of ascertaining compliance or non-compliance with any air pollution control code, rule or regulation, the commissioner may require the person who owns such air contamination source to submit an acceptable report of measured emissions within a stated time.

**Condition 19: Accidental release provisions.**  
**Effective between the dates of 04/25/2018 and 04/24/2023**

**Applicable Federal Requirement: 40 CFR Part 68**

**Item 19.1:**

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

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

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should be submitted to:

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

**Condition 20: Recycling and Emissions Reduction**  
Effective between the dates of 04/25/2018 and 04/24/2023

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

**Item 20.1:**

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

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

**Condition 21: Compliance Certification**  
Effective between the dates of 04/25/2018 and 04/24/2023

**Applicable Federal Requirement:6 NYCRR 200.6**

**Item 21.1:**

The Compliance Certification activity will be performed for the Facility.

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

**Item 21.2:**

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 SO<sub>2</sub> 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 SO<sub>2</sub> 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 factors for SO<sub>2</sub>. These records shall include the 3-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  
Parameter Monitored: SULFUR DIOXIDE  
Upper Permit Limit: 3,120 pounds per hour  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 3-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 22: Compliance Certification**  
**Effective between the dates of 04/25/2018 and 04/24/2023**

**Applicable Federal Requirement: 6 NYCRR 200.6**

**Item 22.1:**

The Compliance Certification activity will be performed for the Facility.

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

**Item 22.2:**

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 SO<sub>2</sub> 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 SO<sub>2</sub> emission cap limit shall be demonstrated by maintaining records of the amount of fuel fired and corresponding emissions, based on accepted emission factors for SO<sub>2</sub>. These records shall include the 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.

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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  
 Parameter Monitored: SULFUR DIOXIDE  
 Upper Permit Limit: 2,040 pounds per hour  
 Monitoring Frequency: CONTINUOUS  
 Averaging Method: 24-HOUR AVERAGE  
 Reporting Requirements: QUARTERLY (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 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(From Mod 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 00021.

Building(s): BOILERHS

**Item 24.2(From Mod 1):**

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 distillate oil (Process DO1) 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

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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 NO<sub>x</sub> emissions.

The NO<sub>x</sub> 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(From Mod 1):**

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 Distillate oil (DO3) 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 24.4(From Mod 1):**

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( Nameplate capacity of the turbine is 16 MW). General Electric Model 5000L simple cycle combustion turbine, GT001 (Emission Source GT001) Nameplate capacity of the turbine is 16 MW., 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. Nameplate capacity of the turbine is 16 MW.

Building(s): GTFAC

**Condition 25: Progress Reports Due Semiannually**

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

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**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
- (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 1-3: Operational Flexibility**

**Effective between the dates of 09/14/2022 and 04/24/2023**

**Applicable Federal Requirement:6 NYCRR 201-6.4 (f)**

**Item 1-3.1:**

A permit modification is not required for changes that are provided for in the permit. Such changes include approved alternate operating scenarios and changes that have been submitted and approved pursuant to an established operational flexibility protocol and the requirements of this section. Each such change cannot be a modification under any provision of Title I of the Clean Air Act or exceed, or cause the facility to exceed, an emissions cap or limitation in the permit. The facility owner or operator must incorporate all changes into any compliance certifications, record keeping, and/or reporting required by the permit.

**Condition 1-4: Statement dates for emissions statements.**

**Effective between the dates of 09/14/2022 and 04/24/2023**

**Applicable Federal Requirement:6 NYCRR 202-2.4 (a) (3)**

**Item 1-4.1:**

This facility is required to submit an annual emission statement electronically and these emissions statements must be submitted to the department as per the following schedule:

- (i) March 15th of each year for facilities with three or fewer processes listed in their Title V permit:
- (ii) March 31st of each year for facilities with four to six processes listed in their Title V permit:
- (iii) April 15th of each year for facilities with 7 to 12 processes listed in their Title V permit:
- (iv) April 30th of each year for facilities with 13 or more processes listed in their Title V permit.

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**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 1-5: Visible Emissions Limited**  
**Effective between the dates of 09/14/2022 and 04/24/2023**

**Applicable Federal Requirement:6 NYCRR 211.2**

**Item 1-5.1:**

Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, no person shall cause or allow any air contamination source to emit any material having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

**Condition 1-6: Compliance Certification**  
**Effective between the dates of 09/14/2022 and 04/24/2023**

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

**Item 1-6.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 1-6.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Owners or operators of emission sources that fire distillate oil are limited to a 0.0015 percent sulfur content by weight of the fuel. Compliance with the sulfur-in-fuel limitation is based on fuel vendor receipts. All fuel vendor receipts must be maintained on site or at a Department approved alternative location for a minimum of five years.

Note - Process sources and incinerators must comply with the above requirements on or after July 1, 2023.

Work Practice Type: PARAMETER OF PROCESS MATERIAL  
 Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL

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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: SEMI-ANNUALLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 The initial report is due 1/30/2023.  
 Subsequent reports are due every 6 calendar month(s).

**Condition 1-7: Compliance Certification**  
 Effective between the dates of 09/14/2022 and 04/24/2023

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

**Item 1-7.1:**  
 The Compliance Certification activity will be performed for the Facility.

**Item 1-7.2:**  
 Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
 Monitoring Description:

The owner or operator must make daily measurements of the rate of each fuel fired at the facility. The owner or operator must also measure the gross heat content and ash content of each fuel fired at least once each week if this information is not provided in the vendor fuel certification receipts. Owners or operators of stationary combustion installations producing electricity for sale must measure the average electrical output and the hourly generation rate of the facility. These records must be maintained on site or at a Department approved alternative location for a minimum of five years.

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 1/30/2023.  
 Subsequent reports are due every 6 calendar month(s).

**Condition 1-8: Compliance Certification**  
 Effective between the dates of 09/14/2022 and 04/24/2023

**Applicable Federal Requirement:6 NYCRR 225-1.6 (f)**

**Item 1-8.1:**  
 The Compliance Certification activity will be performed for the Facility.

**Item 1-8.2:**  
 Compliance Certification shall include the following monitoring:

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator must maintain records of excess emissions. The owner or operator must submit a written report of the fuel sulfur content exceeding the applicable sulfur-in-fuel limitation, measured emissions exceeding the applicable sulfur-in-fuel limitation, measured emissions exceeding the applicable equivalent emission rate, and the nature and cause of such exceedances if known, for each calendar quarter, within 30 days after the end of any quarterly period in which an exceedance[s] takes place. These records must be kept on site or at a Department approved alternative location for a minimum of five years.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2022.

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

**Condition 1-9: Compliance Certification**  
**Effective between the dates of 09/14/2022 and 04/24/2023**

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

**Item 1-9.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-S0002

Process: DO1

Emission Source: 00030

Emission Unit: A-S0004

Process: DO3

Emission Source: 00050

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 1-9.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The owner or operator of a stationary combustion installation shall submit a compliance test protocol to the Department for approval at least 30 days prior to conducting compliance testing of the 0.1 lb/mmBtu particulate matter standard. The owner or operator shall submit the results to the Department for approval within



Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185

60 days of the conclusion of compliance testing. Testing shall be conducted once every five years. All records associated with the testing shall be maintained on site or at a Department approved alternative location for a minimum of five years.

Parameter Monitored: PARTICULATES  
Upper Permit Limit: 0.1 pounds per million Btus  
Reference Test Method: 40 CFR 60, Appendix A, Method 5  
Monitoring Frequency: Once every five years  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2023.  
Subsequent reports are due every 6 calendar month(s).

**Condition 1-10: Compliance Certification**  
**Effective between the dates of 09/14/2022 and 04/24/2023**

**Applicable Federal Requirement: 6 NYCRR 227-1.4 (a)**

**Item 1-10.1:**

The Compliance Certification activity will be performed for the Facility.

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

**Item 1-10.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

ASTORIA GENERATING STATION  
BOILERS 30 & 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.

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185

#### 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 NOx 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.

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185

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

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185

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 O<sub>2</sub> 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

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185

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

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185

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 1-11: Compliance Certification**  
 Effective between the dates of 09/14/2022 and 04/24/2023

**Applicable Federal Requirement: 6 NYCRR 227-1.4 (a)**

**Item 1-11.1:**

The Compliance Certification activity will be performed for the facility:  
 The Compliance Certification applies to:

Emission Unit: A-S0001 Process: 005	Emission Point: 00021
Emission Unit: A-S0001 Process: NG3	Emission Point: 00021
Emission Unit: A-S0002 Process: DO1	Emission Point: 00031
Emission Unit: A-S0002 Process: DO1	Emission Point: 00032
Emission Unit: A-S0002 Process: NG1	Emission Point: 00031
Emission Unit: A-S0002 Process: NG1	Emission Point: 00032
Emission Unit: A-S0004 Process: DO3	Emission Point: 00051
Emission Unit: A-S0004 Process: DO3	Emission Point: 00052
Emission Unit: A-S0004 Process: NG4	Emission Point: 00051
Emission Unit: A-S0004 Process: NG4	Emission Point: 00052

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185

**Item 1-11.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No owner or operator of a combustion installation shall emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average utilizing a continuous opacity monitor (COM) and maintain a record of all measurements made by the COM and the hours of COM downtime. All records generated by the permittee must be maintained at the facility or at an alternative location approved by the Department for a minimum of five years.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Monitoring Frequency: CONTINUOUS

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2022.

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

**Condition 1-12: Compliance Certification**

**Effective between the dates of 09/14/2022 and 04/24/2023**

**Applicable Federal Requirement:6 NYCRR 227-1.4 (a)**

**Item 1-12.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-S0001  
Process: 005

Emission Point: 00021  
Emission Source: AB002

Emission Unit: A-S0001  
Process: NG3

Emission Point: 00021  
Emission Source: 00020

Emission Unit: A-S0005  
Process: GTN

Emission Point: GT001  
Emission Source: GT001

Emission Unit: A-S0005  
Process: SD1

Emission Point: GT001  
Emission Source: 00SD1

**Item 1-12.2:**

Compliance Certification shall include the following monitoring:

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

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185

## Monitoring Description:

No owner or operator of a stationary combustion installation subject to this Subpart shall operate an emission source which exhibits greater than 20 percent opacity (based on a six minute average), except for one 6 minute period per hour of not more than 27 percent opacity. The owner or operator will conduct a Method 9 test annually. A report of the results of the test will be submitted to the Department within 30 days of the completion of the Method 9 test. All records generated by the permittee must be maintained at the facility or at an alternative location approved by the Department for a minimum of five years.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: 40 CFR 60, Appendix A, Method 9

Monitoring Frequency: ANNUALLY

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 1/30/2023.

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

**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 NO<sub>x</sub> emissions from Astoria, Gowanus, and Narrows generating stations must be performed in accordance with the most current version of the NO<sub>x</sub> RACT System Averaging Plan dated October 2017.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2018.

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

**Condition 1-13: Compliance Certification**  
**Effective between the dates of 09/14/2022 and 04/24/2023**



Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185

**Applicable Federal Requirement:6 NYCRR 231-2.7**

**Item 1-13.1:**

The Compliance Certification activity will be performed for the facility:  
The Compliance Certification applies to:

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

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

**Item 1-13.2:**

Compliance Certification shall include the following monitoring:

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: 40 CFR Part 75  
Monitoring Frequency: CONTINUOUS  
Averaging Method: ANNUAL MAXIMUM ROLLED DAILY  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 10/30/2022.  
Subsequent reports are due every 3 calendar month(s).

**Condition 1-14: Compliance Certification**  
**Effective between the dates of 09/14/2022 and 04/24/2023**

**Applicable Federal Requirement:6 NYCRR 231-2.7**

**Item 1-14.1:**

The Compliance Certification activity will be performed for the facility:  
The Compliance Certification applies to:

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185

Emission Unit: A-S0001

Process: NG3

Emission Source: 00020

Regulated Contaminant(s):

CAS No: 000630-08-0

CARBON MONOXIDE

**Item 1-14.2:**

Compliance Certification shall include the following monitoring:

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 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: 40 CFR Part 60

Monitoring Frequency: CONTINUOUS

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2022.

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

**Condition 1-15: Compliance Certification**

Effective between the dates of 09/14/2022 and 04/24/2023

**Applicable Federal Requirement: 6 NYCRR 231-2.7**

**Item 1-15.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-S0002

Process: DO1

Emission Source: 00030

Emission Unit: A-S0002

Process: NG1

Emission Source: 00030

Regulated Contaminant(s):

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 1-15.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

For Emission Points 00031 and 00032 from Boiler 30 (Emission Source 00030), the owner or operator shall maintain a record of the quantity of each fuel fired and the resulting mass emission of carbon monoxide (CO), totaled over a 365 day period beginning with the start-up of the source project. The owner or operator shall calculate, using the following formula, the 365 day rolling total of tons per year of CO emitted from Boiler 30 (Emission Source 00030), to verify compliance with its emission limit:

$D + G < 1435$  tons/year of CO emissions, where:

D = 365 day rolling total tons of CO from combustion with distillate oil, as determined using the following equation:

total days in 365 days of combustion with distillate oil)  
x(1000 gallons oil/total days of combustion with  
distillate oil in 365 days ) x ((5 lb CO/1000 gallons  
distillate oil)x 1ton/2000 lbs

G = 365 day rolling total tons of CO from combustion with Natural Gas, as determined using the following equation:

total days in 365 days of combustion with natural gas) x  
(MMcf Natural gas/total days of combustion with natural  
gas in 365 days) x (98 lb CO/MMcf) x 1 ton/2000 lbs

The emission factors used in the above equations (5 lb CO/1000 gallons fuel oil, 98 lb CO/MMcf natural gas) are from the USEPA Compilation of Air Pollution Emission Factors (AP-42), Volume I, 9/98.

Compliance with this CO emission limit of 1,435 tons per year from Boiler 30 (Emission Source 00030) shall be demonstrated by maintaining records of the amount of fuel fired and corresponding emissions. Emission calculations will be performed in a manner acceptable to the Department.



Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185

Reference Test Method: 40 CFR Part 75  
 Monitoring Frequency: CONTINUOUS  
 Averaging Method: ANNUAL MAXIMUM ROLLED DAILY  
 Reporting Requirements: QUARTERLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 The initial report is due 10/30/2022.  
 Subsequent reports are due every 3 calendar month(s).

**Condition 1-17: Compliance Certification**  
**Effective between the dates of 09/14/2022 and 04/24/2023**

**Applicable Federal Requirement:6 NYCRR 231-11.2**

**Item 1-17.1:**

The Compliance Certification activity will be performed for the facility:  
 The Compliance Certification applies to:

Emission Unit: A-S0001  
 Process: 005 Emission Source: AB002

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

**Item 1-17.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The auxiliary Boiler AB002 NOx emissions are limited to 1.96 tons per year. The annual total NOx 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 1/30/2023.  
 Subsequent reports are due every 6 calendar month(s).

**Condition 1-18: Compliance Certification**  
**Effective between the dates of 09/14/2022 and 04/24/2023**

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

**Item 1-18.1:**

The Compliance Certification activity will be performed for the facility:  
 The Compliance Certification applies to:

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185

Emission Unit: A-S0001

Process: NG3

Emission Source: 00020

Regulated Contaminant(s):

CAS No: 007446-09-5

SULFUR DIOXIDE

**Item 1-18.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

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 SO<sub>2</sub>/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 SO<sub>2</sub> emission limit shall be demonstrated by maintaining records of the amount of fuel fired and corresponding emissions, based on accepted emission factors for SO<sub>2</sub>. Emission calculations will be performed in a manner acceptable to the Department.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: FUEL

Parameter Monitored: SULFUR DIOXIDE

Upper Permit Limit: 79000 pounds 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 1/30/2023.

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

**Condition 1-19: Compliance Certification**

**Effective between the dates of 09/14/2022 and 04/24/2023**

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

**Item 1-19.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-S0001

Process: NG3

Emission Source: 00020

Regulated Contaminant(s):

Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185

CAS No: 0NY075-00-0 PARTICULATES

**Item 1-19.2:**

Compliance Certification shall include the following monitoring:

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 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.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 49000 pounds per year

Reference Test Method: EPA Method 5

Monitoring Frequency: Once every five years

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2023.

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

**Condition 1-20: Compliance Certification**

Effective between the dates of 09/14/2022 and 04/24/2023

Applicable Federal Requirement: 40CFR 52.21, Subpart A

**Item 1-20.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-S0001

Process: NG3

Emission Source: 00020

Regulated Contaminant(s):

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

**Item 1-20.2:**

Compliance Certification shall include the following monitoring:

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

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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 limit 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: 29000 pounds per year

Reference Test Method: EPA approved

Monitoring Frequency: Once every five years

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2023.

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

**Condition 1-21: Compliance Certification**  
**Effective between the dates of 09/14/2022 and 04/24/2023**

**Applicable Federal Requirement: 40CFR 63.7540(a)(10), Subpart DDDDD**

**Item 1-21.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-S0001

Process: 005

Emission Source: AB002

**Item 1-21.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a boiler or process heater that has a heat input capacity of 10 million Btu per hour or greater must conduct an annual tune-up of the boiler or process heater to demonstrate continuous compliance as specified in paragraphs (i) through (vi) below. The owner or operator must conduct the tune-up while burning the type of fuel (or fuels in case of units that routinely burn a mixture) that provided the majority of the heat input to the boiler or process heater over the 12 months prior to the tune-up. This frequency does not apply to limited-use boilers and process heaters, as defined in 40



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CFR 63.7575, or units with continuous oxygen trim systems that maintain an optimum air to fuel ratio.

(i) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the owner or operator may perform the burner inspection any time prior to the tune-up or delay the burner inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment;

(ii) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;

(iii) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection;

(iv) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOx requirement to which the unit is subject;

(v) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer; and

(vi) Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs (A) through (C) below,

(A) The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater;

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(B) A description of any corrective actions taken as a part of the tune-up; and

(C) The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit.

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 1/30/2023.

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

**Condition 1-22: Compliance Certification**

**Effective between the dates of 09/14/2022 and 04/24/2023**

**Applicable Federal Requirement: 40CFR 63.9983(c), Subpart UUUUU**

**Item 1-22.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-S0001

Emission Unit: A-S0002

Emission Unit: A-S0004

**Item 1-22.2:**

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

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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 1/30/2023.

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

**Condition 37: Applicability**

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

**Applicable Federal Requirement:40CFR 63, Subpart ZZZZ**

**Item 37.1:**

Facilities that have reciprocating internal combustion engines must comply with applicable portions of 40 CFR 63 subpart ZZZZ.

**Condition 39: Compliance Certification**

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

**Applicable Federal Requirement:40 CFR Part 72**

**Item 39.1:**

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5      SULFUR DIOXIDE

**Item 39.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Astoria Generating Station is subject to the Title IV Acid Rain regulations found in 40 CFR Parts 72, 73, 75, 76, 77 and 78. The Acid Rain Permit( DEC ID #: 2-6301-00185/00017) is an attachment to this permit. As perTitle IV permit, the facility is required to have 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**

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**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 1-23: Compliance Certification**

**Effective between the dates of 09/14/2022 and 04/24/2023**

**Applicable Federal Requirement:40CFR 97.406, Subpart AAAAA**

**Item 1-23.1:**

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

**Item 1-23.2:**

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;

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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<sub>x</sub> Annual allowances and to determine compliance with the TR NO<sub>x</sub> 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 NO<sub>x</sub> Annual facility and each TR NO<sub>x</sub> Annual Unit at the facility shall hold, in the facilities compliance account, TR NO<sub>x</sub> Annual allowances available for deduction for such control period under §97.424(a) in an amount not less than the tons of total NO<sub>x</sub> emissions for such control period from all TR NO<sub>x</sub> 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

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representative (or alternative) or their contact information.

(2) The facility, and the designated representative, of each TR NO<sub>x</sub> Ozone Season source (facility) and each TR NO<sub>x</sub> 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<sub>x</sub> Ozone Season allowances and to determine compliance with the TR NO<sub>x</sub> 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<sub>x</sub> Ozone Season facility and each TR NO<sub>x</sub> Ozone Season Unit at the facility shall hold, in the facilities compliance account, TR NO<sub>x</sub> 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<sub>x</sub> emissions for such control period from all TR NO<sub>x</sub> 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:

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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 SO<sub>2</sub> Group 1 source (facility) and each TR SO<sub>2</sub> 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 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 SO<sub>2</sub> Group 1 allowances and to determine compliance with the TR SO<sub>2</sub> 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 SO<sub>2</sub> Group 1 facility and each TR SO<sub>2</sub> Group 1 Unit at the facility shall hold, in the facilities compliance account, TR SO<sub>2</sub> Group 1 allowances available for deduction for such control period under §97.624(a) in an amount not less than the tons of total SO<sub>2</sub> emissions for such control period from all TR SO<sub>2</sub> Group 1 Units at the facility.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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

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**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(From Mod 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.): 4515.659 NYTME (km.): 591.677 Building: BOILERHS

**Item 44.2(From Mod 1):**

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

Emission Unit: A-S0002

Emission Point: 00031  
 Height (ft.): 299 Diameter (in.): 164  
 NYTMN (km.): 4515.705 NYTME (km.): 591.72 Building: BOILERHS

Emission Point: 00032  
 Height (ft.): 299 Diameter (in.): 164  
 NYTMN (km.): 4515.712 NYTME (km.): 591.726 Building: BOILERHS

**Item 44.3(From Mod 1):**

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.): 164  
 NYTMN (km.): 4515.794 NYTME (km.): 591.801 Building: BOILERHS

Emission Point: 00052  
 Height (ft.): 299 Diameter (in.): 164  
 NYTMN (km.): 4515.802 NYTME (km.): 591.807 Building: BOILERHS

**Item 44.4(From Mod 1):**

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

Emission Unit: A-S0005

Emission Point: GT001  
 Height (ft.): 29 Length (in.): 240 Width (in.): 154  
 NYTMN (km.): 4515.695 NYTME (km.): 591.793 Building: GTFAC

**Condition 45: Process Definition By Emission Unit**  
**Effective between the dates of 04/25/2018 and 04/24/2023**



Permit ID: 2-6301-00185/00009

Facility DEC ID: 2630100185

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

**Item 45.1(From Mod 1):**

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

Emission Unit: A-S0001  
 Process: 005 Source Classification Code: 1-02-006-02  
 Process Description: Auxiliary Boiler AB002 firing natural gas.

Emission Source/Control: AB002 - Combustion  
 Design Capacity: 37.8 million British thermal units per year

**Item 45.2(From Mod 1):**

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

Emission Unit: A-S0001  
 Process: NG3 Source Classification Code: 1-01-006-01  
 Process Description:

Process NG3 consists of one face fired very large (1,795 MM Btu/hr) Babcock & Wilcox boiler, Boiler 20 (Emission Source 00020) in Emission Unit A-S0001 burning only natural gas.

Emission Source/Control: 00020 - Combustion  
 Design Capacity: 1,795 million Btu per hour

**Item 45.3(From Mod 1):**

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

Emission Unit: A-S0002  
 Process: DO1 Source Classification Code: 1-01-005-01  
 Process Description:

Process DO1 is the combustion of distillate oil in Boiler 30 (Emission Source 00030 in Emission Unit A-S0002).

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

**Item 45.4(From Mod 1):**

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

Emission Unit: A-S0002  
 Process: NG1 Source Classification Code: 1-01-006-01  
 Process Description:

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

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

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**Item 45.5(From Mod 1):**

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

Emission Unit: A-S0004

Process: DO3

Source Classification Code: 1-01-005-01

Process Description:

Process DO3 is the combustion of distillate oil in Boiler 50 (Emission Source 00050 in Emission Unit A-S0004).

Emission Source/Control: 00050 - Combustion

Design Capacity: 4,094 million Btu per hour

**Item 45.6(From Mod 1):**

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 distillate oil (Process DO3) 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 45.7(From Mod 1):**

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.

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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 45.8(From Mod 1):**

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 Ultra low sulfur diesel (0.0015% sulfur by weight). The starter engine is exhausted through the same stack as GT001.

Emission Source/Control: 00SD1 - Combustion  
 Design Capacity: 600 horsepower (electric)

**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).

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**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:

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Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

Monitoring Frequency: SINGLE OCCURRENCE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 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).

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**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 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 NOx emissions with a continuous emissions monitoring system (CEMS) as described in 6NYCRR 227-2.6(b).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

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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 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)**

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

**Applicable Federal Requirement:6 NYCRR 227-2.6**

**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

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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).

**Condition 1-24: Compliance Certification**  
 Effective between the dates of 09/14/2022 and 04/24/2023



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**Applicable Federal Requirement: 6 NYCRR 227-3.5 (a)**

**Item 1-24.1:**

The Compliance Certification activity will be performed for:

Emission Unit: A-S0005

Emission Point: GT001

Process: GTN

Emission Source: GT001

Regulated Contaminant(s):

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

**Item 1-24.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Starting May 1, 2023, Astoria Generating Station must cease/retire the operation of its turbine GT001 as proposed in the compliance plan dated December 15, 2021.

The owner or operator must maintain a log of the dates of operation and submit a report of those dates to the Department on an annual calendar basis. The owner or operator must maintain this log as long as the facility chooses to utilize this compliance option. If a facility is operated during the ozone season that facility will be deemed out of compliance with their permit requirements and must prove compliance with their permit requirements and must prove compliance with the appropriate NOx emission limits of this Subpart within 90 days of the date of ozone season operation.

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 1/30/2023.

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

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**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 in 6 NYCRR 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 demonstrate, 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 facility was being properly operated and maintained;

(3) during the period of the emergency the facility owner or operator took all reasonable steps to minimize the 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 any 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 malfunction 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

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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: 000124-38-9  
Name: CARBON DIOXIDE

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: 0NY210-00-0  
Name: OXIDES OF NITROGEN

**Condition 1-25: Malfunctions and Start-up/Shutdown Activities**

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Effective between the dates of 09/14/2022 and 04/24/2023

**Applicable State Requirement:6 NYCRR 201-1.4****Item 1-25.1:**

(a) The facility owner or operator shall take all necessary and appropriate actions to prevent the emission of air pollutants that result in contravention of any applicable emission standard during periods of start-up, shutdown, or malfunction.

(b) The facility owner or operator shall compile and maintain records of all equipment maintenance and start-up/shutdown activities when they are expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when required by a permit condition or upon request by the department. Such reports shall state whether an exceedance occurred and if it was unavoidable, include the time, frequency and duration of the exceedance, and an estimate of the emission rates of any air contaminants released. Such records shall be maintained for a period of at least five years and made available for review to department representatives upon request. Facility owners or operators subject to continuous monitoring and quarterly reporting requirements need not submit additional reports of exceedances to the department.

(c) In the event that air contaminant emissions exceed any applicable emission standard due to a malfunction, the facility owner or operator shall notify the department as soon as possible during normal working hours, but not later than two working days after becoming aware that the malfunction occurred. In addition, the facility owner or operator shall compile and maintain a record of all malfunctions. Such records shall be maintained at the facility for a period of at least five years and must be made available to the department upon request. When requested by the department, the facility owner or operator shall submit a written report to the department describing the malfunction, the corrective action taken, the air contaminants emitted, and the resulting emission rates and/or opacity.

(d) The department may also require the facility owner or operator to include, in reports described under Subdivisions (b) and (c) of this Section, an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions.

(e) A violation of any applicable emission standard resulting from start-up, shutdown, or malfunction conditions at a permitted or registered facility may not be subject to an enforcement action by the department and/or penalty if the department determines, in its sole discretion, that such a violation was unavoidable. The actions and recordkeeping and reporting requirements listed above must be adhered to in such circumstances.

**Condition 1-26: CLCPA Applicability**

Effective between the dates of 09/14/2022 and 04/24/2023

**Applicable State Requirement:6 NYCRR 201-6.5 (a)****Item 1-26.1:**

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Pursuant to The New York State Climate Leadership and Community Protection Act (CLCPA) and Article 75 of the Environmental Conservation Law, emission sources shall comply with regulations to be promulgated by the Department to ensure that by 2030 statewide greenhouse gas emissions are reduced by 40% of 1990 levels, and by 2050 statewide greenhouse gas emissions are reduced by 85% of 1990 levels.

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

**Applicable State Requirement:6 NYCRR 211.1**

**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 79: CO2 Budget Trading Program - Excess emission requirements**  
**Effective between the dates of 04/25/2018 and 04/24/2023**

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

**Item 79.1:**

The owners and operators of a CO2 budget source that has excess emissions in any control period shall:

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

**Condition 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

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comply with the monitoring requirements of Subpart 242-8. The emissions measurements recorded and reported in accordance with Subpart 242-8 of this Part shall be used to determine compliance by the unit with the following CO<sub>2</sub> requirements:

- (1) The owners and operators of each CO<sub>2</sub> budget source and each CO<sub>2</sub> budget unit at the source shall hold CO<sub>2</sub> allowances available for compliance deductions under Section 242-6.5, as of the CO<sub>2</sub> allowance transfer deadline, in the source's compliance account in an amount not less than the total CO<sub>2</sub> emissions for the control period from all CO<sub>2</sub> budget units at the source, as determined in accordance with Subparts 242-6 and 242-8.
- (2) Each ton of CO<sub>2</sub> emitted in excess of the CO<sub>2</sub> budget emissions limitation shall constitute a separate violation of this Part and applicable state law.
- (3) A CO<sub>2</sub> budget unit shall be subject to the requirements specified in item 1 starting on the later, of January 1, 2009 or the date on which the unit commences operation.
- (4) CO<sub>2</sub> allowances shall be held in, deducted from, or transferred among CO<sub>2</sub> Allowance Tracking System accounts in accordance with Subparts 242-5, 242-6, and 242-7, and Section 242-10.7.
- (5) A CO<sub>2</sub> allowance shall not be deducted, in order to comply with the requirements specified in item 1, for a control period that ends prior to the allocation year for which the CO<sub>2</sub> allowance was allocated. A CO<sub>2</sub> offset allowance shall not be deducted, in order to comply with the requirements under item 1, beyond the applicable percent limitations set out in 6NYCRR Part 242-6.5(a)(3).
- (6) A CO<sub>2</sub> allowance under the CO<sub>2</sub> Budget Trading Program is a limited authorization by the Department or a participating state to emit one ton of CO<sub>2</sub> in accordance with the CO<sub>2</sub> Budget Trading Program. No provision of the CO<sub>2</sub> Budget Trading Program, the CO<sub>2</sub> budget permit application, or the CO<sub>2</sub> budget permit or any provision of law shall be construed to limit the authority of the Department or a participating state to terminate or limit such authorization.
- (7) A CO<sub>2</sub> allowance under the CO<sub>2</sub> Budget Trading Program does not constitute a property right.

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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 CO<sub>2</sub> budget source and each CO<sub>2</sub> budget unit at the source shall keep on site at the source each of the following documents for a period of 10 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 10 years, in writing by the department.

(i) The account certificate of representation for the CO<sub>2</sub> authorized account representative for the source and each CO<sub>2</sub> budget unit at the source and all documents that demonstrate the truth of the statements in the account certificate of representation, in accordance with 6 NYCRR Part 242-2.4, provided that the certificate and documents shall be retained on site at the source beyond such 10-year period until such documents are superseded because of the submission of a new account certificate of representation.

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

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CO<sub>2</sub> Budget Trading Program.

(iv) Copies of all documents used to complete a CO<sub>2</sub> budget permit application and any other submission under the CO<sub>2</sub> Budget Trading Program or to demonstrate compliance with the requirements of the CO<sub>2</sub> Budget Trading Program.

The CO<sub>2</sub> authorized account representative of a CO<sub>2</sub> budget source and each CO<sub>2</sub> budget unit at the source shall submit

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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).

**Condition 1-27: Compliance Demonstration**  
**Effective between the dates of 09/14/2022 and 04/24/2023**

**Applicable State Requirement:6 NYCRR 251.3 (b)**

**Item 1-27.1:**

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: A-S0005

Process: GTN

Emission Source: GT001

Regulated Contaminant(s):

CAS No: 000124-38-9 CARBON DIOXIDE

**Item 1-27.2:**

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

On or after December 31, 2020, owners or operators of non-modified existing sources shall not fire any single fossil fuel, alone or in combination with any other fuel, where each fossil fuel is required to meet an emission rate of 180 pounds of CO2 per million Btu of input (input-based limit). These emission limits are measured on an annual basis, calculated by dividing the annual total of CO2 emissions for the calendar year by the annual total Btus (input-based limit) fired for each separate fossil fuel fired. The owner or operator must maintain all records associated with these requirements on site or at a location acceptable to the Department for a minimum of five years.

Parameter Monitored: CARBON DIOXIDE

Upper Permit Limit: 180 pounds per million Btus

Reference Test Method: 40 CFR 75

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: CALENDAR YEAR AVERAGE



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Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 10/30/2022.  
Subsequent reports are due every 3 calendar month(s).

**Condition 1-28: Compliance Demonstration**  
**Effective between the dates of 09/14/2022 and 04/24/2023**

**Applicable State Requirement: 6 NYCRR 251.6 (f)**

**Item 1-28.1:**

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000124-38-9 CARBON DIOXIDE

**Item 1-28.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Owners or operators that choose not to demonstrate compliance with the provisions in subdivision 251.3(b) of this Part through the use of a CEM may utilize an alternative monitoring plan as approved by the Department.

The owners or operators may submit their annual reports under one of the following provisions:

- (1) Sources subject to the reporting requirements of 6 NYCRR Subpart 202-2 of this Title may use their annual emission statement to satisfy the requirements of this subdivision, or
- (2) Sources subject to the reporting requirements of 40 CFR Part 98 (see Table 1, section 200.9 of this Title) may use their annual submission to EPA to satisfy the requirements of this subdivision, or
- (3) Sources that are not subject to the reporting requirements of 6 NYCRR Subpart 202-2 of this Title or 40 CFR Part 98 (see Table 1, section 200.9 of this Title) must submit an annual report, in a format prescribed by the Department, by the April 15th immediately following the end of the calendar year for which the annual report is required. At a minimum, the annual report should include:
  - (i) Fuel type combusted in each unit subject to this Part;
  - (ii) Quantity of fuel combusted in each unit subject to this Part; and
  - (iii) Heat content of each fuel combusted.



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(input-based limit). These emission limits are measured on an annual basis, calculated by dividing the annual total of CO<sub>2</sub> emissions for the calendar year by the annual total Btus (input-based limit) fired for each separate fossil fuel fired. The owner or operator must maintain all records associated with these requirements on site or at a location acceptable to the Department for a minimum of five years.

Manufacturer Name/Model Number: CO<sub>2</sub> Continuous Monitor

Parameter Monitored: CARBON DIOXIDE

Upper Permit Limit: 180 pounds per million Btus

Monitoring Frequency: CONTINUOUS

Averaging Method: CALENDAR YEAR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2022.

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

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