

**Division of Air Resources  
Permit Review Report**

**Permit ID: 2-6102-00086/00011**

**Renewal Number: 3**

**Modification Number: 1 08/15/2024**

**Facility Identification Data**

Name: NARROWS GENERATING STATION

Address: 53RD ST & FIRST AVE|4 WHALE SQUARE  
BROOKLYN, NY 11232

**Owner/Firm**

Name: ASTORIA GENERATING COMPANY LP

Address: c/o ALPHA GENERATION LLC

300 ATLANTIC ST FL 5

STAMFORD, CT 06901, USA

Owner Classification: Corporation/Partnership

**Permit Contacts**

Division of Environmental Permits:

Name: DENISE L GRATTAN

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47-40 21ST ST

LONG ISLAND CITY, NY 11101

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Division of Air Resources:

Name: PARESH SHAH

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47-40 21ST ST

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Air Permitting Contact:

Name: NATALIA HERNANDEZ

Address: ASTORIA GENERATING STATION

18-01 20TH AVE GATE 1

ASTORIA, NY 11105

Phone:7182043918

**Permit Description**

**Introduction**

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

**Summary Description of Proposed Project**

**Division of Air Resources  
Permit Review Report**

**Permit ID: 2-6102-00086/00011**

**Renewal Number: 3**

**Modification Number: 1 08/15/2024**

This modification is to include conditions pertaining to applicable portions of 6 NYCRR Part 242 and Part 251. This modification also incorporates 6 NYCRR Subpart 227-3 Ozone season NOx limits and operating restrictions for the facility’s simple cycle combustion turbines.

**Attainment Status**

NARROWS GENERATING STATION is located in the town of BROOKLYN in the county of KINGS. The attainment status for this location is provided below. (Areas classified as attainment are those that meet all ambient air quality standards for a designated criteria air pollutant.)

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

\* Ozone is regulated in terms of the emissions of volatile organic compounds (VOC) and/or oxides of nitrogen (NOx) which are ozone precursors.

\*\* NOx has a separate ambient air quality standard in addition to being an ozone precursor.

**Facility Description:**

The Facility operates an existing power station that produces electricity. The facility operates sixteen (16) combustion turbines and sixteen (16) starting engines located on two floating barges and listed in emission units N-A0005 and N-A0006 of the permit. Each combustion turbine is rated at 297 MMBtu/hr and each starting engine is rated at 600 horsepower. The turbines combust distillate oil (ULSD) and natural gas. The starting engines combust ULSD.

**Division of Air Resources  
Permit Review Report**

**Permit ID: 2-6102-00086/00011**

**Renewal Number: 3**

**Modification Number: 1 08/15/2024**

**Permit Structure and Description of Operations**

The Title V permit for NARROWS GENERATING STATION

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

- combustion - devices which burn fuel to generate heat, steam or power
- incinerator - devices which burn waste material for disposal
- control - emission control devices
- process - any device or contrivance which may emit air contaminants that is not included in the above categories.

NARROWS GENERATING STATION is defined by the following emission unit(s):

Emission unit NA0005 - Combustion turbines 1 through 8 on barge 1 are rated at 297 mmbtu/hr each.

**Division of Air Resources  
Permit Review Report**

**Permit ID: 2-6102-00086/00011**

**Renewal Number: 3**

**Modification Number: 1 08/15/2024**

Each combustion turbine has the capability to burn both distillate oil and natural gas. Each combustion turbine has its own diesel starter engine, rated at 600 hp.

Emission unit NA0005 is associated with the following emission points (EP):

OGT11, OGT12, OGT13, OGT14, OGT15, OGT16, OGT17, OGT18, OSD11, OSD12, OSD13, OSD14, OSD15, OSD16, OSD17, OSD18

Process: D01 is located at Building PIER 1 - This process includes 8 combustion turbines on barge 1 rated at 297 mmbtu/hr each. This process covers the combustion of distillate oil in these turbines.

Process: NG1 is located at Building PIER 1 - This process includes 8 combustion turbines on barge 1 rated at 297 mmbtu/hr each. This process covers the combustion of natural gas in these turbines.

Process: SD1 is located at Building PIER 1 - This process includes 8 diesel starter engines on barge 1 rated at 600 hp each and combusting #2 fuel oil.

Emission unit NA0006 - Combustion turbines 1 through 8 on barge 2 are rated at 297 mmbtu/hr each. Each combustion turbine has the capability to burn both distillate oil and natural gas. Each combustion turbine has its own diesel starter engine, rated at 600 hp.

Emission unit NA0006 is associated with the following emission points (EP):

OGT21, OGT22, OGT23, OGT24, OGT25, OGT26, OGT27, OGT28, OSD21, OSD22, OSD23, OSD24, OSD25, OSD26, OSD27, OSD28

Process: D02 is located at Building PIER 1 - This process includes 8 combustion turbines on barge 2 rated at 297 mmbtu/hr each. This process covers the combustion of distillate oil in these turbines.

Process: NG2 is located at Building PIER 1 - This process includes 8 combustion turbines on barge 2 rated at 297 mmbtu/hr each. This process covers the combustion of natural gas in these turbines.

Process: SD2 is located at Building PIER 1 - This process includes 8 diesel starter engines on barge 2 rated at 600 hp each and combusting #2 fuel oil.

**Title V/Major Source Status**

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

The facility-wide emissions (PTE) for NO<sub>x</sub> and VOC are more than major threshold, 25 tpy, and CO is more than 100 tpy.

**Program Applicability**

The following chart summarizes the applicability of NARROWS GENERATING STATION with regards to the principal air pollution

**Division of Air Resources  
Permit Review Report**

**Permit ID: 2-6102-00086/00011**

**Renewal Number: 3**

**Modification Number: 1 08/15/2024**

regulatory programs:

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

**NOTES:**

**PSD** Prevention of Significant Deterioration (40 CFR 52.21, 6 NYCRR 231-7, 231-8) - requirements which pertain to major stationary sources located in areas which are in attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

**NSR** New Source Review (6 NYCRR 231-5, 231-6) - requirements which pertain to major stationary sources located in areas which are in non-attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

**NESHAP** National Emission Standards for Hazardous Air Pollutants (40 CFR 61, 6 NYCRR 200.10) - contaminant and source specific emission standards established prior to the Clean Air Act Amendments of 1990 (CAAA) which were developed for 9 air contaminants (inorganic arsenic, radon, benzene, vinyl chloride, asbestos, mercury, beryllium, radionuclides, and volatile HAP's).

**MACT** Maximum Achievable Control Technology (40 CFR 63, 6 NYCRR 200.10) - contaminant and source specific emission standards established by the 1990 CAAA. Under Section 112 of the CAAA, the US EPA is required to develop and promulgate emissions standards for new and existing sources. The standards are to be based on the best demonstrated control technology and practices in the regulated industry, otherwise known as MACT. The corresponding regulations apply to specific source types and contaminants.

**NSPS** New Source Performance Standards (40 CFR 60, 6 NYCRR 200.10) - standards of performance for specific stationary source categories developed by the US EPA under Section 111 of the CAAA. The standards apply only to those stationary sources which have been constructed or modified after the regulations have been proposed by publication in the Federal Register and only to the specific contaminant(s) listed in the regulation.

**Title IV** Acid Rain Control Program (40 CFR 72 thru 78, 6 NYCRR 201-6) - regulations which mandate the implementation of the acid rain control program for large stationary combustion facilities.

**Title VI** Stratospheric Ozone Protection (40 CFR 82, Subpart A thru G, 6 NYCRR 200.10) -

**Division of Air Resources  
Permit Review Report**

**Permit ID: 2-6102-00086/00011**

**Renewal Number: 3**

**Modification Number: 1 08/15/2024**

federal requirements that apply to sources which use a minimum quantity of CFC's (chlorofluorocarbons), HCFC's (hydrofluorocarbons) or other ozone depleting substances or regulated substitute substances in equipment such as air conditioners, refrigeration equipment or motor vehicle air conditioners or appliances.

**RACT** Reasonably Available Control Technology (6 NYCRR Parts 212-3, 220-1.6, 220-1.7, 220-2.3, 220-2.4, 226, 227-2, 228, 229, 230, 233, 234, 235, 236) - the lowest emission limit that a specific source is capable of meeting by application of control technology that is reasonably available, considering technological and economic feasibility. RACT is a control strategy used to limit emissions of VOC's and NOx for the purpose of attaining the air quality standard for ozone. The term as it is used in the above table refers to those state air pollution control regulations which specifically regulate VOC and NOx emissions.

**SIP** State Implementation Plan (40 CFR 52, Subpart HH, 6 NYCRR 200.10) - as per the CAAA, all states are empowered and required to devise the specific combination of controls that, when implemented, will bring about attainment of ambient air quality standards established by the federal government and the individual state. This specific combination of measures is referred to as the SIP. The term here refers to those state regulations that are approved to be included in the SIP and thus are considered federally enforceable.

**Compliance Status**

Facility is in compliance with all requirements.

**SIC Codes**

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

**SIC Code**

**Description**

4911	ELECTRIC SERVICES
4931	ELEC & OTHER SERVICES COMBINED

**SCC Codes**

SCC or Source Classification Code is a code developed and used" by the USEPA to categorize processes which result in air emissions for the purpose of assessing emission factor information. Each SCC represents a unique process or function within a source category logically associated with a point of air pollution emissions. Any operation that causes air pollution can be represented by one or more SCC's.

**SCC Code**

**Description**

2-01-001-01	INTERNAL COMBUSTION ENGINES - ELECTRIC GENERATION ELECTRIC UTILITY INTERNAL COMBUSTION ENGINE - DISTILLATE OIL (DIESEL) Turbine
2-01-001-02	INTERNAL COMBUSTION ENGINES - ELECTRIC GENERATION ELECTRIC UTILITY INTERNAL COMBUSTION ENGINE - DISTILLATE OIL (DIESEL) Reciprocating

**Division of Air Resources  
Permit Review Report**

**Permit ID: 2-6102-00086/00011**

**Renewal Number: 3**

**Modification Number: 1 08/15/2024**

2-01-002-01

INTERNAL COMBUSTION ENGINES - ELECTRIC  
GENERATION  
ELECTRIC UTILITY INTERNAL COMBUSTION ENGINE  
- NATURAL GAS  
Turbine

**Facility Emissions Summary**

In the following table, the CAS No. or Chemical Abstract Service code is an identifier assigned to every chemical compound. [NOTE: Certain CAS No.'s contain a 'NY' designation within them. These are not true CAS No.'s but rather an identification which has been developed by the department to identify groups of contaminants which ordinary CAS No.'s do not do. As an example, volatile organic compounds or VOC's are identified collectively by the NY CAS No. 0NY998-00-0.] The PTE refers to the Potential to Emit. This is defined as the maximum capacity of a facility or air contaminant source to emit any air contaminant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or air contamination source to emit any air contaminant, including air pollution control equipment and/or restrictions on the hours of operation, or on the type or amount or material combusted, stored, or processed, shall be treated as part of the design only if the limitation is contained in federally enforceable permit conditions. The PTE for each contaminant that is displayed represents the facility-wide PTE in tons per year (tpy) or pounds per year (lbs/yr). In some instances the PTE represents a federally enforceable emissions cap or limitation for that contaminant. The term 'HAP' refers to any of the hazardous air pollutants listed in section 112(b) of the Clean Air Act Amendments of 1990. Total emissions of all hazardous air pollutants are listed under the special NY CAS No. 0NY100-00-0. In addition, each individual hazardous air pollutant is also listed under its own specific CAS No. and is identified in the list below by the (HAP) designation.

<b>Cas No.</b>	<b>Contaminant</b>	<b>PTE lbs/yr</b>	<b>PTE tons/yr</b>	<b>Actual lbs/yr</b>	<b>Actual tons/yr</b>
000124-38-9	CARBON DIOXIDE	4362611			
000630-08-0	CARBON MONOXIDE	2171208			
000050-00-0	FORMALDEHYDE	19395			
007439-92-1	LEAD	389.4			
0NY210-00-0	OXIDES OF NITROGEN	14632131			
0NY075-00-0	PARTICULATES	174756			
0NY075-00-5	PM-10	174756			
007446-09-5	SULFUR DIOXIDE	90026			
0NY100-00-0	TOTAL HAP	27202			
0NY998-00-0	VOC	55604			

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

**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.

**Division of Air Resources**  
**Permit Review Report**

**Permit ID: 2-6102-00086/00011**

**Renewal Number: 3**

**Modification Number: 1 08/15/2024**

**Item B: Timely Application for the Renewal of Title V Permits -6 NYCRR Part 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 Part 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 Part 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 Part 201-6.4(a)(3)**

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

**Item F: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR 201-6.4(a)(5)**

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

**Item G: Property Rights - 6 NYCRR 201-6.4(a)(6)**

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

**Item H: Severability - 6 NYCRR Part 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 Part 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



**Division of Air Resources**  
**Permit Review Report**

**Permit ID: 2-6102-00086/00011**

**Renewal Number: 3**

**Modification Number: 1 08/15/2024**

are not applicable to the major stationary source, and the permit includes the determination or a concise summary thereof. Nothing herein shall preclude the Department from revising or revoking the permit pursuant to 6 NYCRR Part 621 or from exercising its summary abatement authority. Nothing in this permit shall alter or affect the following:

- i. The ability of the Department to seek to bring suit on behalf of the State of New York, or the Administrator to seek to bring suit on behalf of the United States, to immediately restrain any person causing or contributing to pollution presenting an imminent and substantial endangerment to public health, welfare or the environment to stop the emission of air pollutants causing or contributing to such pollution;
- ii. The liability of a permittee of the Title V facility for any violation of applicable requirements prior to or at the time of permit issuance;
- iii. The applicable requirements of Title IV of the Act;
- iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

**Item J: Reopening for Cause - 6 NYCRR Part 201-6.4(i)**

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

- i. If additional applicable requirements under the Act become applicable where this permit's remaining term is three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 2 01-6.7 and Part 621.
- ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.
- iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

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

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

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

**Division of Air Resources  
Permit Review Report**

**Permit ID: 2-6102-00086/00011**

**Renewal Number: 3**

**Modification Number: 1 08/15/2024**

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.

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

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

An emergency, as defined by subpart 201-2, constitutes an affirmative defense to penalties sought in an enforcement action brought by the Department for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

- (a) The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:
- (1) An emergency occurred and that the facility owner or operator can identify the cause(s) of the emergency;
  - (2) The equipment at the permitted facility causing the emergency was at the time being properly operated and maintained;
  - (3) During the period of the emergency the facility owner or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
  - (4) The facility owner or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.
- (b) In any enforcement proceeding, the facility owner or operator seeking to establish the occurrence of an emergency has the burden of proof.

**Division of Air Resources  
Permit Review Report**

**Permit ID: 2-6102-00086/00011**

**Renewal Number: 3**

**Modification Number: 1 08/15/2024**

(c) This provision is in addition to any emergency or upset provision contained in any applicable requirement. item\_02

**Item B: General Provisions for State Enforceable Permit Terms and Condition - 6  
NYCRR Part 201-5**

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

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

**Regulatory Analysis**

<b>Location Facility/EU/EP/Process/ES</b>	<b>Regulation</b>	<b>Condition</b>	<b>Short Description</b>
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FACILITY	ECL 19-0301	47	Powers and Duties of the Department with respect to air pollution control
FACILITY	40CFR 63-ZZZZ	39	Reciprocating Internal Combustion Engine (RICE) NESHAP
FACILITY	40CFR 68	19	Chemical accident prevention provisions
FACILITY	40CFR 82-F	20	Protection of Stratospheric Ozone - recycling and emissions reduction
FACILITY	6NYCRR 200.6	1, 1 -3	Acceptable ambient air quality.
FACILITY	6NYCRR 200.7	1 -2	Maintenance of equipment.
FACILITY	6NYCRR 201-1.4	1 -17	Unavoidable noncompliance and violations
FACILITY	6NYCRR 201-1.7	11	Recycling and Salvage
FACILITY	6NYCRR 201-1.8	12	Prohibition of reintroduction of collected contaminants to the air
FACILITY	6NYCRR 201-3.2(a)	13	Exempt Activities - Proof of eligibility
FACILITY	6NYCRR 201-3.3(a)	14	Trivial Activities - proof of eligibility
FACILITY	6NYCRR 201-6	22, 40, 41	Title V Permits and the Associated Permit Conditions

**Division of Air Resources  
Permit Review Report**

**Permit ID: 2-6102-00086/00011**

**Renewal Number: 3**

**Modification Number: 1 08/15/2024**

FACILITY	6NYCRR 201-6.4 (a) (4)	15		General Conditions - Requirement to Provide Information
FACILITY	6NYCRR 201-6.4 (a) (7)	2		General Conditions - Fees
FACILITY	6NYCRR 201-6.4 (a) (8)	16		General Conditions - Right to Inspect
FACILITY	6NYCRR 201-6.4 (c)	3		Recordkeeping and Reporting of Compliance Monitoring Records of Monitoring, Sampling and Measurement
FACILITY	6NYCRR 201-6.4 (c) (2)	4		Reporting Requirements - Deviations and Noncompliance
FACILITY	6NYCRR 201-6.4 (c) (3) (ii)	5		Compliance Schedules - Progress Reports
FACILITY	6NYCRR 201-6.4 (d) (4)	23		Certification
FACILITY	6NYCRR 201-6.4 (e)	6		Operational Flexibility
FACILITY	6NYCRR 201-6.4 (f)	1	-4	Off Permit Changes
FACILITY	6NYCRR 201-6.4 (f) (6)	17		Federally Enforceable Emissions Caps
FACILITY	6NYCRR 201-7	24,	42	Required emissions tests.
FACILITY	6NYCRR 202-1.1	18		Emission statement methods and procedures
FACILITY	6NYCRR 202-2.4 (a) (3)	1	-5	Emission Statements - record keeping requirements.
FACILITY	6NYCRR 202-2.5	1	-1	Control Measures for an Air Pollution Episode
FACILITY	6NYCRR 207	27		General Prohibitions - air pollution prohibited
FACILITY	6NYCRR 211.1	49		General Prohibitions - visible emissions limited.
FACILITY	6NYCRR 211.2	28		Open Fires - Prohibitions
FACILITY	6NYCRR 215.2	9		Sulfur-in-Fuel Limitation - Distillate Oil
FACILITY	6NYCRR 225-1.2 (d)	1	-6	Monitoring Requirements
FACILITY	6NYCRR 225-1.5 (c)	31		Excess Emission Reports
FACILITY	6NYCRR 225-1.6 (f)	1	-7	Annual Tune-up Requirement
FACILITY	6NYCRR 227-1.3 (c)	1	-8	Opacity Standard
FACILITY	6NYCRR 227-1.4 (a)	1	-9, 1 -10	Compliance options.
FACILITY	6NYCRR 227-2.5	35		Testing, monitoring, and reporting requirements
FACILITY	6NYCRR 227-2.6	1	-11, 1 -12	May 1, 2023 Control Requirements
FACILITY	6NYCRR 227-3.4 (a) (1)	1	-13	Ozone Season Stop
FACILITY	6NYCRR 227-3.5 (a)	1	-14, 1 -15	Electric System
FACILITY	6NYCRR 227-3.6	1	-16	Reliability
FACILITY	6NYCRR 242-1.5	1	-18	CO2 Budget Trading

**Division of Air Resources  
Permit Review Report**

**Permit ID: 2-6102-00086/00011**

**Renewal Number: 3**

**Modification Number: 1 08/15/2024**

FACILITY	6NYCRR 242-4	1	-19	Program - Standard requirements
FACILITY	6NYCRR 242-8.5	1	-20	CO2 Budget Trading Program - Compliance certification
FACILITY	6NYCRR 251.3(b)	1	-21	CO2 Budget Trading Program - Recordkeeping and reporting
FACILITY	6NYCRR 251.6(f)	1	-22	Emission limits for non-modified sources. Annual reports.

**Applicability Discussion:**

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

ECL 19-0301

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

6 NYCRR 200.6

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

6 NYCRR 200.7

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

6 NYCRR 201-1.4

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

6 NYCRR 201-1.7

Requires the recycle and salvage of collected air contaminants where practical

6 NYCRR 201-1.8

Prohibits the reintroduction of collected air contaminants to the outside air

6 NYCRR 201-3.2 (a)

An owner and/or operator of an exempt emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains exempt emission sources or units, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

6 NYCRR 201-3.3 (a)

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

**Division of Air Resources  
Permit Review Report**

**Permit ID: 2-6102-00086/00011**

**Renewal Number: 3**

**Modification Number: 1 08/15/2024**

representatives must be granted access to any facility which contains trivial emission sources or units subject to this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

6 NYCRR Subpart 201-6

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

6 NYCRR 201-6.4 (a) (4)

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

6 NYCRR 201-6.4 (a) (7)

This is a mandatory condition that requires the owner or operator of a facility subject to Title V requirements to pay all applicable fees associated with the emissions from their facility.

6 NYCRR 201-6.4 (a) (8)

This is a mandatory condition for all facilities subject to Title V requirements. It allows the Department to inspect the facility to determine compliance with this permit, including copying records, sampling and monitoring, as necessary.

6 NYCRR 201-6.4 (c)

This requirement specifies, in general terms, what information must be contained in any required compliance monitoring records and reports. This includes the date, time and place of any sampling, measurements and analyses; who performed the analyses; analytical techniques and methods used as well as any required QA/QC procedures; results of the analyses; the operating conditions at the time of sampling or measurement and the identification of any permit deviations. All such reports must also be certified by the designated responsible official of the facility.

6 NYCRR 201-6.4 (c) (2)

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

6 NYCRR 201-6.4 (c) (3) (ii)

This regulation specifies any reporting requirements incorporated into the permit must include provisions regarding the notification and reporting of permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken.

**Division of Air Resources**  
**Permit Review Report**

**Permit ID: 2-6102-00086/00011**

**Renewal Number: 3**

**Modification Number: 1 08/15/2024**

6 NYCRR 201-6.4 (d) (4)

This condition applies to every Title V facility subject to a compliance schedule. It requires that reports, detailing the status of progress on achieving compliance with emission standards, be submitted semiannually.

6 NYCRR 201-6.4 (e)

Sets forth the general requirements for compliance certification content; specifies an annual submittal frequency; and identifies the EPA and appropriate regional office address where the reports are to be sent.

6 NYCRR 201-6.4 (f) (6)

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

6 NYCRR 202-1.1

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

6 NYCRR 202-2.5

This rule specifies that each facility required to submit an emission statement must retain a copy of the statement and supporting documentation for at least 5 years and must make the information available to department representatives.

6 NYCRR 211.2

This regulation limits opacity from sources to less than or equal to 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

6 NYCRR 215.2

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

40 CFR Part 68

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

40 CFR Part 82, Subpart F

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

**Facility Specific Requirements**

In addition to Title V, NARROWS GENERATING STATION has been determined to be subject to the

**Division of Air Resources  
Permit Review Report**

**Permit ID: 2-6102-00086/00011**

**Renewal Number: 3**

**Modification Number: 1 08/15/2024**

following regulations:

40 CFR Part 63, Subpart ZZZZ

This regulation defines performance standards for stationary reciprocating internal combustion engines

6 NYCRR 201-6.4 (f)

This section describes the potential for certain operational changes to be made by the facility owner or operator without first obtaining a permit modification. Changes made pursuant to this provision must meet all of the criteria described in this section to qualify for consideration as operational flexibility. The Department reserves the right to require the facility owner or operator to obtain a permit modification prior to making any changes at the facility pursuant to this section.

6 NYCRR 202-2.4 (a) (3)

Once a facility is required to submit annual emission statements electronically, emission statements must be submitted to the department per the specified schedule, in this regulation beginning the reporting year that a Title V permit containing a condition mandating electronic submittal is issued.

6 NYCRR 211.1

This regulation requires that 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.

6 NYCRR 225-1.2 (d)

This subdivision sets the sulfur-in-fuel limitation for distillate oil fired emission sources throughout the State.

6 NYCRR 225-1.5 (c)

This citation sets the daily and weekly fuel monitoring requirements for subject emission sources.

6 NYCRR 225-1.6 (f)

This subdivision requires the submission of excess emission reports when the the sulfur-in-fuel limitation, equivalent emission rate, or measured emissions exceeds the allowable standard.

6 NYCRR 227-1.3 (c)

This subdivision requires that all stationary combustion installations subject to this subpart perform an



**Division of Air Resources  
Permit Review Report**

**Permit ID: 2-6102-00086/00011**

**Renewal Number: 3**

**Modification Number: 1 08/15/2024**

annual tune-up.

6 NYCRR 227-1.4 (a)

This subdivision sets the opacity standard for subject stationary combustion installations.

6 NYCRR 227-2.5

Compliance options for emission sources subject to NO<sub>x</sub> RACT that are not presumptive emission limits.

6 NYCRR 227-2.6

This regulation establishes the compliance testing, monitoring, and reporting requirements for NO<sub>x</sub> RACT affected stationary combustion installations.

6 NYCRR 227-3.4 (a) (1)

This paragraph sets the ozone season NO<sub>x</sub> emission limit for applicable sources.

6 NYCRR 227-3.5 (a)

This subdivision provided an alternative compliance option with the prescribed limits by allowing a subject source the option of shutting down during the ozone season.

6 NYCRR 227-3.6

This section contains the requirements to be a designated reliability source and the deadlines for compliance for these sources.

6 NYCRR 242-1.5

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

6 NYCRR 242-8.5

This regulation requires the CO<sub>2</sub> authorized account representative to comply with all applicable recordkeeping and reporting requirements in section 242-8.5, the applicable record keeping and reporting requirements under 40 CFR 75.73 and with the certification requirements of section 242-2.1(e) of this Part.

**Division of Air Resources  
Permit Review Report**

**Permit ID: 2-6102-00086/00011**

**Renewal Number: 3**

**Modification Number: 1 08/15/2024**

6 NYCRR 251.3 (b)

Emission limits for non-modified sources.

6 NYCRR 251.6 (f)

Recordkeeping and reporting - annual reports.

6 NYCRR Part 207

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

6 NYCRR Subpart 201-7

This regulation sets forth an emission cap that cannot be exceeded by the facility. In this permit that cap is 50 tons per ozone season per turbine and 400 tons per ozone season for all turbines under Emission Unit: N-A0006.

6 NYCRR Subpart 242-4

This citation requires that an Annual Compliance Certification report be submitted by March 1st, on an annual basis, certifying compliance with the CO<sub>2</sub> Budget Trading Program.

**Compliance Certification**

**Summary of monitoring activities at NARROWS GENERATING STATION:**

<b>Location Facility/EU/EP/Process/ES</b>	<b>Cond No.</b>	<b>Type of Monitoring</b>
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FACILITY	1-3	work practice involving specific operations
FACILITY	5	record keeping/maintenance procedures
FACILITY	6	record keeping/maintenance procedures
FACILITY	25	monitoring of process or control device parameters as surrogate
FACILITY	26	monitoring of process or control device parameters as surrogate
N-A0005	44	work practice involving specific operations

**Division of Air Resources  
Permit Review Report**

**Permit ID: 2-6102-00086/00011**

**Renewal Number: 3**

**Modification Number: 1 08/15/2024**

N-A0006	46	work practice involving specific operations
FACILITY	1-6	work practice involving specific operations
FACILITY	31	record keeping/maintenance procedures
FACILITY	1-7	record keeping/maintenance procedures
FACILITY	1-8	record keeping/maintenance procedures
FACILITY	1-9	monitoring of process or control device parameters as surrogate
FACILITY	1-10	record keeping/maintenance procedures
FACILITY	35	record keeping/maintenance procedures
FACILITY	1-11	record keeping/maintenance procedures
FACILITY	1-12	record keeping/maintenance procedures
FACILITY	1-13	intermittent emission testing
FACILITY	1-14	record keeping/maintenance procedures
FACILITY	1-15	record keeping/maintenance procedures
FACILITY	1-18	record keeping/maintenance procedures
FACILITY	1-19	record keeping/maintenance procedures
FACILITY	1-20	record keeping/maintenance procedures
FACILITY	1-21	monitoring of process or control device parameters as surrogate
FACILITY	1-22	record keeping/maintenance procedures

**Basis for Monitoring**

6 NYCRR 225-1.2(d): The permittee shall retain fuel oil supplier certifications for each shipment of oil received. Such certifications shall contain, as a minimum, supplier name, date of shipment, quantity shipped, heating value of the oil, oil sulfur content, and the method used to determine the sulfur content.

6 NYCRR 227-1.4 (a): The facility personnel shall monitor opacity daily and if visible emissions are observed, it is required to do Method 9 testing.

6 NYCRR 227-2: The facility's NOx RACT plan dated October 2017 was reviewed and found acceptable. The facility is using system wide averaging plan to be in compliance with the NOx limit.

6 NYCRR 227-3: On March 2, 2020, Facility submitted ozone season compliance plan for its 16 SCCT per 227-3.5 (a). The facility proposed that during the ozone season, it will stop operation of its combustion turbines burning oil fuel by May 1, 2023, and burning gas and oil by May 1, 2025.

Facility is subject to 227-3.4 control requirements(100 ppmvd NOx Limit) for its combustion turbines burning gas fuel, till May 1, 2025.

1 hour NO2 modelling: Based on these modeling results, the facility has proposed that an enforceable condition be included in the Title V permit that states: "The unit OGT17 may not operate when firing ULSD for more than 7 calendar days per year. There are no restrictions on any other combinations of units when firing ULSD". This enforceable permit condition would ensure that the facility will not cause or contribute to a modeled exceedance of the 1-hour NO2 NAAQS. November 2019, the Department approved the NO2 modeling plan.

6 NYCRR Part 201-6.5(a): NYPA submitted Climate Leadership and Community Protection Act (CLCPA) analysis for the facility pursuant to the requirements of sections CLCPA 7(2) and 7(3).

**Division of Air Resources  
Permit Review Report**

**Permit ID: 2-6102-00086/00011**

**Renewal Number: 3**

**Modification Number: 1 08/15/2024**

The analysis includes calculations showing the facility's potential to emit each Greenhouse Gas (GHG), its carbon dioxide equivalent emissions, and associated upstream out-of-state GHG emissions. The analysis also addresses the facility's potential to emit hazardous air pollutants and co-pollutants calculations, and the mitigation strategies used for emission sources to reduce its impacts on local communities and disadvantaged communities. The CLCPA analysis was found acceptable to the Department.

6 NYCRR Part 251.3 (b) is applicable to this facility as a fossil fuel-fired existing major electric generating facilities that provide more than 10 percent of their annual electric output to the electric grid and that are not subject to section 251.3(a) of this Part. On or after December 31, 2020, owners or operators of non-modified existing sources is not allowed to fire any single fossil fuel, alone or in combination with any other fuel with an emission rate greater than or equal to 180 pounds of CO<sub>2</sub> per million Btu of input (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 over the same calendar year for each fossil fuel fired.

The facility shall monitor emissions of CO<sub>2</sub> by measuring and recording the heat input and computing CO<sub>2</sub> emissions using Eq G-4 under section 2.3 of 40 CFR Part 75, Appendix G (hourly heat input to estimate hourly CO<sub>2</sub> mass emissions) and Appendix F (Table 1 - F- and Fc-Factors). Appendix G calculation methods are an alternative to using a Continuous Emission Monitoring System (CEMS) to measure CO<sub>2</sub> in 40 CFR Part 75.13(b), where Part 251.5(b)(1) calls for the installation of CO<sub>2</sub> CEMS in accordance with 40 CFR Part 75.13.

6 NYCRR Part 242-The facility's combustion turbines are subject to this regulation. This regulation establishes the NYS Budget Trading Program and is designed to stabilize and then reduce man made emissions of CO<sub>2</sub>, a greenhouse gas, from CO<sub>2</sub> budget sources, by creating and allocating CO<sub>2</sub> allowances.