

**Division of Air Resources
Permit Review Report**

Permit ID: 3-3922-00003/00008

Renewal Number: 4

10/27/2025

Facility Identification Data

Name: BOWLINE GENERATING STATION

Address: 140 SAMSONDALE AVE

Haverstraw, NY 10993

Owner/Firm

Name: BOWLINE GENERATING STATION, LLC

Address: 24 Waterway Ave Ste 400

The Woodlands, TX 77380, USA

Owner Classification: Corporation/Partnership

Permit Contacts

Division of Environmental Permits:

Name: RIANNA M SCANLON

Address: NYSDEC

625 BROADWAY FL 4

ALBANY, NY 12233

Phone: 518 408 9193

Division of Air Resources:

Name: ALYSSA N ARKET

Address: NYSDEC - REGION 3

21 S Putt Corners Rd

New Paltz, NY 12561-1620

Phone: 845 256 3058

Air Permitting Contact:

Name: CHRISTINE CROYLE

Address: 140 SAMSONDALE AVE

WEST HAVERSTRAW, NY 10993

Phone: 845 786 8008

**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

Renewal of existing Air Title V permit for Bowline Generating Station located in West Haverstraw, New York. There are no physical changes being made to the plant but a couple of minor changes to the permit. As part of this renewal, the facility is no longer subject to 40 CFR 63 Subpart UUUUU due to the facility no longer meeting the MATS definition of an "oil-fired electric utility steam generating unit". This renewal

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will include new requirements under 6 NYCRR Part 251 (CO₂ Performance Standards) that took effect in June 2019. A CLCPA analysis was submitted to the Department as apart of this renewal.

Attainment Status

BOWLINE GENERATING STATION is located in the town of HAVERSTRAW in the county of ROCKLAND.

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 (PM ₁₀)	ATTAINMENT
Sulfur Dioxide (SO ₂)	ATTAINMENT
Ozone*	SEVERE NON-ATTAINMENT
Oxides of Nitrogen (NO _x)**	ATTAINMENT
Carbon Monoxide (CO)	ATTAINMENT

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

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

Facility Description:

Bowline Generating Station is approximately a 50-acre oil and gas-fired steam and electric generating plant with two (2) 600 megawatt power generating, dual-fuel boilers rated at 5,374 mmBtu/hr and 5,546 mmBtu/hr each. The facility also has exempt equipment consisting of one (1) natural gas emergency generator rated at 825 hp, one (1) diesel fire pump rated at 200 hp, and three (3) Cleaver Brooks temporary, natural gas boilers rated at less than 10 mmBtu/hr each. The facility also houses a wastewater treatment plant and several storage tanks used for fuels, lubricating oils, and chemicals.

Permit Structure and Description of Operations

The Title V permit for BOWLINE 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

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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.

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

Emission unit 100002 - Boiler No. 2 - A Babcock & Wilcox opposed wall-fired boiler with a rated heat input of 5,374 MMBtu/hr and a rated output of 567 MW. This unit can fire natural gas or No. 6 fuel oil (0.37% max sulfur content). This emission unit along with boiler no. 1 employs system-wide averaging for the determination and reporting of NOx emissions.

Emission unit 100002 is associated with the following emission points (EP):
00002

Process: 2GS is located at Ground, Building BLD01 - Unit 2 stationary combustion unit firing natural gas.

Process: 2OL is located at Ground, Building BLD01 - Unit 2 stationary combustion unit firing No. 6 fuel oil.

Process: 2WL is located at Ground, Building BLD01 - Unit 2 stationary combustion unit firing on-site generated waste oil.

Emission unit 100001 - Boiler No. 1 - A Combustion Engineering tangentially-fired boiler with a rated heat input of 5546 MMBtu/hr and a rated output of 572 MW. This unit can fire natural gas or No. 6 fuel oil (0.37% maximum sulfur content). This emission unit along with Boiler No. 2 employs system-wide averaging for the determination and reporting of NOx emissions.

Emission unit 100001 is associated with the following emission points (EP):
00001

Process: 1GS is located at Ground, Building 395 - Unit 1 stationary combustion unit firing natural gas.

Process: 1OL is located at Ground, Building BLD01 - Unit 1 stationary combustion unit firing No. 6 fuel oil.

Process: 1WL is located at Ground, Building BLD01 - Unit 1 stationary combustion unit firing on-site generated waste oil.

Title V/Major Source Status

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

The Bowline Generating Station is a major source of SO₂, NO_x, CO, CO₂, HAP, VOC, and PM emissions. Accordingly, the facility is required to obtain a Title V facility permit.

Program Applicability

The following chart summarizes the applicability of BOWLINE GENERATING STATION with regards

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to the principal air pollution
regulatory programs:

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

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

SCC Codes

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

SCC Code

Description

1-01-004-04

EXTERNAL COMBUSTION BOILERS - ELECTRIC GENERATION

ELECTRIC UTILITY BOILER - RESIDUAL OIL Grade 6 Oil: Tangential Firing

1-01-006-04

EXTERNAL COMBUSTION BOILERS - ELECTRIC GENERATION

ELECTRIC UTILITY BOILER - NATURAL GAS Tangentially Fired Units

1-01-013-02

EXTERNAL COMBUSTION BOILERS - ELECTRIC

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GENERATION
ELECTRIC UTILITY BOILER - LIQUID WASTE
Waste Oil

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.

Cas No.	Contaminant	PTE lbs/yr	PTE tons/yr	Actual lbs/yr	Actual tons/yr
000106-99-0	1,3-BUTADIENE	0.02		0.0007	
000091-57-6	2-METHYL NAPHTHALENE	2.24			
000056-49-5	3- METHYLCHOLA NTHRENE	0.17			
000057-97-6	7,12- DIMETHYLBENZ[A]ANTHRACENE	1.49			
000083-32-9	ACENAPHTHENE	13.5			
000208-96-8	ACENAPHTHYLE NE	0.17			
000075-07-0	ACETALDEHYDE	0.49		0.014	
000107-02-8	ACROLEIN	0.06		0.0017	
000120-12-7	ANTHRACENE	0.78			
007440-36-0	ANTIMONY	3367			
007440-38-2	ARSENIC	847			
000071-43-2	BENZENE	197			
000056-55-3	BENZO(A)ANTHR ACENE	2.57			
000050-32-8	BENZO(A)PYREN E	0.11			
000205-99-2	BENZO[B]FLUOR ANTHENE	0.95			
000191-24-2	BENZO[G,H,I]PER YLENE	1.45			
000207-08-9	BENZO[K]FLUOR ANTHENE	0.95			
007440-41-7	BERYLLIUM	17.8			
007440-43-9	CADMIUM	255			
000124-38-9	CARBON DIOXIDE		8035281		
0NY750-00-0	CARBON		8107402		

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000630-08-0	DIOXIDE EQUIVALENTS CARBON		1609	
007440-47-3	MONOXIDE CHROMIUM	542		
018540-29-9	CHROMIUM(VI)	159		
000218-01-9	CHRYSENE	1.53		
007440-48-4	COBALT		3861	
025321-22-6	DICHLOROBENZ ENE	112		
000100-41-4	ETHYLBENZENE	40.8		
000206-44-0	FLUORANTHENE	3.11		
000086-73-7	FLUORENE	2.89		
000050-00-0	FORMALDEHYDE		39132	
000110-54-3	HEXANE		83.84	0.35
000193-39-5	INDENO[1,2,3- CD]PYRENE	1.37		
007439-92-1	LEAD		0.48	
007439-96-5	MANGANESE	1924		
007439-97-6	MERCURY	72.5		
000074-82-8	METHANE		107.15	
001634-04-4	METHYL TERTBUTYL ETHER			3
000091-20-3	NAPHTHALENE	725		
007440-02-0	NICKEL METAL AND INSOLUBLE COMPOUNDS	54139		
010024-97-2	NITROUS OXIDE		169.95	
0NY210-00-0	OXIDES OF NITROGEN		11965	
0NY075-00-0	PARTICULATES		4784	
000540-84-1	PENTANE, 2,2,4- TRIMETHYL-			0.17
000085-01-8	PHENANTHRENE	6.75		
012185-10-3	PHOSPHOROUS		6067	
0NY075-00-5	PM-10		4784	410590
0NY075-02-5	PM-2.5		4784	
000129-00-0	PYRENE	2.73		
007782-49-2	SELENIUM	438		
007446-09-5	SULFUR DIOXIDE		18628	
000108-88-3	TOLUENE		3977	
0NY100-00-0	TOTAL HAP		139	
0NY998-00-0	VOC		257	153
001330-20-7	XYLENE, M, O & P MIXT.	70.1		

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.

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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 are not applicable to the major stationary source, and the permit includes the determination

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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

The issuance of this permit by the Department and the receipt thereof by the Applicant

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

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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

Location Facility/EU/EP/Process/ES	Regulation	Condition	Short Description
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FACILITY	ECL 19-0301	44	Powers and Duties of the Department with respect to air pollution control
FACILITY	40CFR 68	16	Chemical accident prevention provisions
FACILITY	40CFR 72	31	Permits regulation
FACILITY	40CFR 75	32	Continuous emission monitoring
FACILITY	40CFR 82-F	17	Protection of Stratospheric Ozone - recycling and emissions reduction
FACILITY	40CFR 97-AAAAA.406	33	Transport Rule (TR) NOx Annual Trading Program Standard Requirements
FACILITY	40CFR 97-CCCCC.606	34	Transport Rule (TR) SO2 Group 1 Trading Program Standard Requirements
FACILITY	40CFR 97-GGGGG.1006	35	CSAPR NOx Ozone Season Group 3 Trading Program Standard Requirements
FACILITY	6NYCRR 200.6	1	Acceptable ambient air quality.
FACILITY	6NYCRR 200.7	9	Maintenance of equipment.
FACILITY	6NYCRR 201-1.4	45	Unavoidable noncompliance and violations
FACILITY	6NYCRR 201-1.7	10	Recycling and Salvage
FACILITY	6NYCRR 201-1.8	11	Prohibition of

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			reintroduction of collected contaminants to the air
FACILITY	6NYCRR 201-3.2 (a)	12	Exempt Activities - Proof of eligibility
FACILITY	6NYCRR 201-3.3 (a)	13	Trivial Activities - proof of eligibility
FACILITY	6NYCRR 201-6	18, 36, 37	Title V Permits and the Associated Permit Conditions
FACILITY	6NYCRR 201-6.4 (a) (4)	14	General Conditions - Requirement to Provide Information
FACILITY	6NYCRR 201-6.4 (a) (7)	2	General Conditions - Fees
FACILITY	6NYCRR 201-6.4 (a) (8)	15	General Conditions - Right to Inspect
FACILITY	6NYCRR 201-6.4 (c)	3	Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.4 (c) (2)	4	Records of Monitoring, Sampling and Measurement
FACILITY	6NYCRR 201-6.4 (c) (3) (ii)	5	Reporting Requirements - Deviations and Noncompliance
FACILITY	6NYCRR 201-6.4 (d) (4)	19	Compliance Schedules - Progress Reports
FACILITY	6NYCRR 201-6.4 (e)	6	Compliance Certification
FACILITY	6NYCRR 201-6.4 (f)	20	Operational Flexibility
FACILITY	6NYCRR 201-6.5 (a)	46	State Enforceable Requirements
FACILITY	6NYCRR 202-1.1	21	Required emissions tests.
FACILITY	6NYCRR 202-2.4 (a) (3)	22	Emission statement methods and procedures
FACILITY	6NYCRR 202-2.5	7	Emission Statements - record keeping requirements.
FACILITY	6NYCRR 211.2	23	General Prohibitions - visible emissions limited.
FACILITY	6NYCRR 215.2	8	Open Fires - Prohibitions
FACILITY	6NYCRR 225-1.2 (c)	24	Sulfur-inFuel Limitations - Residual Oil
FACILITY	6NYCRR 225-1.2 (e)	25, 26	Sulfur-inFuel Limitation - Waste Oil
FACILITY	6NYCRR 227-1.3 (a)	27	Particulate Emission Standards
FACILITY	6NYCRR 227-1.4 (a)	28	Opacity Standard
FACILITY	6NYCRR 227-1.5 (b) (2)	29	Excess Emissions & Monitoring System Reports
FACILITY	6NYCRR 242-1.5	47	CO2 Budget Trading Program - Standard requirements
FACILITY	6NYCRR 242-4	48	CO2 Budget Trading

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FACILITY	6NYCRR 242-8.5	49	Program - Compliance certification
			CO2 Budget Trading
FACILITY	6NYCRR 249.3 (a)	30	Program - Recordkeeping and reporting
			BART Emission Limitation
1-00001/-/1GS	6NYCRR 249.3 (a)	39, 40	Requirements for Sources
			BART Emission Limitation
1-00002/-/2GS	6NYCRR 249.3 (a)	42, 43	Requirements for Sources
			BART Emission Limitation
1-00001	6NYCRR 249.3 (f)	38	Requirements for Sources
			Each BART determination established by the Department will be submitted to the EPA for approval as a SIP revision.
1-00002	6NYCRR 249.3 (f)	41	Each BART determination established by the Department will be submitted to the EPA for approval as a SIP revision.
1-00001	6NYCRR 251.3 (b)	51	Emission limits for non-modified sources.
1-00002	6NYCRR 251.3 (b)	52	Emission limits for non-modified sources.
FACILITY	6NYCRR 251.6 (d)	50	Vendor Certified Fuel Receipts

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

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maintenance, start-up, shutdown, malfunction or upset in the event that these are unavoidable.

6 NYCRR 201-1.7

Requires the recycle and salvage of collected air contaminants where practical

6 NYCRR 201-1.8

Prohibits the reintroduction of collected air contaminants to the outside air

6 NYCRR 201-3.2 (a)

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

6 NYCRR 201-3.3 (a)

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

6 NYCRR Subpart 201-6

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

6 NYCRR 201-6.4 (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)

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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.

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 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 there applicability thresholds and sets the requirements for stationary sources concerning the prevention of accidental releases of these substances.

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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, BOWLINE GENERATING STATION has been determined to be subject to the following regulations:

40 CFR 97.1006

40 CFR Part 97 Subpart GGGGG the NOx Ozone Season Cross State Air Pollution Rule (CSAPR) requires additional NOx reductions from power plants located in twelve (12) states beginning with the 2021 ozone season. It is designed to reduce NOx emissions during the ozone season (May - September) for large fossil fuel fired electric generating units that have a nameplate capacity of greater than 25 megawatts electrical and produce electricity for sale. The new Group 3 Trading Program would be in addition to the existing Groups 1 and 2 NOx Ozone Trading Programs. The final rule does not include ozone season NOx emission limits for non-EGUs.

40 CFR 97.406

This condition provides the general requirements for implementing EPA's Transport Rule (TR) 40 CFR Part 97, Subpart AAAAA; intended to reduce the interstate transport of fine particulate matter and ozone. This particular condition requires facilities to measure and report their emissions of Nitrogen Oxide (NOx) and to hold TR annual NOx allowances sufficient to cover these emissions. Commonly referred to as a budget trading program, each State has an established 'budget' of emissions that are distributed or sold to facilities, which, in turn, can only emit as much as they hold in allowances.

40 CFR 97.606

This condition provides the general requirements for implementing EPA's Transport Rule (TR) 40 CFR Part 97, Subpart CCCCC; intended to reduce the interstate transport of fine particulate matter and ozone. This particular condition requires facilities to measure and report their emissions of sulfur dioxide (SO2) annually and to hold TR annual SO2 allowances sufficient to cover these emissions. Commonly referred to as a budget trading program, each State has an established 'budget' of emissions that are distributed or sold to facilities, which, in turn, can only emit as much as they hold in allowances.

40 CFR Part 72

In order to reduce acid rain in the U.S. and Canada, Title IV of the Clean Air Act Amendments of

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

40 CFR Part 75

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

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 201-6.5 (a)

This subdivision states that the Department shall include state enforceable conditions in Title V permits. State enforceable conditions related to regulations developed pursuant to the Climate Leadership and Community Protection Act (CLCPA) and Article 75 of New York State Environmental Conservation Law may be included in future versions of this permit, as applicable.

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 225-1.2 (c)

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

6 NYCRR 225-1.2 (e)

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6 NYCRR 227-1.3 (a)

This subdivision sets the particulate matter emission standards for subject stationary combustion installations.

6 NYCRR 227-1.4 (a)

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

6 NYCRR 227-1.5 (b) (2)

This paragraph contains the excess emissions and monitoring system reporting requirements for emission sources required to utilize a continuous opacity monitor.

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 CO₂ 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.

6 NYCRR 249.3 (a)

The owner or operator of a source that is determined to be BART-eligible and whose emissions of visibility-impairing pollutants result in a visibility impairment equal to or greater than 0.1 deciviews in any Federal Class I Area must conduct an analysis to determine the appropriate emission limitation necessary to meet BART requirements.

6 NYCRR 249.3 (f)

Each BART determination established by the department will be submitted to the United States Environmental Protection Agency (EPA) for approval as a revision to the State Implementation Plan (SIP).

6 NYCRR 251.3 (b)

Emission limits for non-modified sources.

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6 NYCRR 251.6 (d)

This subdivision sets the requirements for the maintenance of Vendor certified fuel receipts.

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 CO₂ Budget Trading Program.

Compliance Certification

Summary of monitoring activities at BOWLINE GENERATING STATION:

Location	Cond No.	Type of Monitoring
Facility/EU/EP/Process/ES		

FACILITY	32	record keeping/maintenance procedures
FACILITY	33	record keeping/maintenance procedures
FACILITY	34	record keeping/maintenance procedures
FACILITY	35	record keeping/maintenance procedures
FACILITY	5	record keeping/maintenance procedures
FACILITY	6	record keeping/maintenance procedures
FACILITY	24	work practice involving specific operations
FACILITY	25	work practice involving specific operations
FACILITY	26	work practice involving specific operations
FACILITY	27	intermittent emission testing
FACILITY	28	monitoring of process or control device parameters as surrogate
FACILITY	29	record keeping/maintenance procedures
FACILITY	47	record keeping/maintenance procedures
FACILITY	48	record keeping/maintenance procedures
FACILITY	49	record keeping/maintenance procedures
FACILITY	30	work practice involving specific operations
1-00001/-/1GS	39	continuous emission monitoring (cem)
1-00001/-/1GS	40	continuous emission monitoring (cem)
1-00002/-/2GS	42	continuous emission monitoring (cem)
1-00002/-/2GS	43	continuous emission monitoring (cem)
1-00001	38	record keeping/maintenance procedures
1-00002	41	record keeping/maintenance procedures
1-00001	51	continuous emission monitoring (cem)
1-00002	52	continuous emission monitoring (cem)
FACILITY	50	record keeping/maintenance procedures

Basis for Monitoring

40 CFR 63 Subpart DDDDD

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Bowline Units 1 and 2 are not subject to the requirements of 40 CFR 63 Subpart DDDDD because they meet the definition of ‘natural gas fired EGU’ in 40 CFR 63 Subpart UUUUU and fire at least 85% natural gas on an annual heat input basis.

40 CFR Part 72

Bowline Units 1 and 2 are affected units subject to the Acid Rain Program. Therefore, the facility must continuously monitor, maintain, and certify monitoring systems for opacity, SO₂ emissions, NO_x emissions, SO₂ removal (if applicable), CO₂ emissions, and volumetric flow rate in accordance with the requirements of 40 CFR Part 75.

40 CFR 75

Bowline has Continuous Emission Monitors (CEMs) for NO_x, SO₂, and CO₂. The facility will meet all applicable operation/maintenance, record keeping, and reporting requirements.

40 CFR Part 97

As the owner and operator of a stationary boiler serving a generator with nameplate capacity greater than 25 megawatts, the Bowline Generating Station is subject to various CSAPR requirements promulgated under 40 CFR Part 97. These regulations require the facility to acquire and maintain allowances for emissions of NO_x and SO₂ in accordance with the emissions trading program.

6 NYCRR Part 225-1

Bowline Units 1 and 2 are subject to the requirements of 6 NYCRR Part 225-1 because they facility can burn No. 6 fuel oil. This restricts the sulfur content of the fuel being used at the facility. The facility demonstrated compliance by keeping records of fuel supply certifications.

Reasonably Available Control Technology for Oxides of Nitrogen (NO_x RACT) – 6 NYCRR Part 227-2

The Bowline Generating Station is a major source of emissions of oxides of nitrogen and is therefore subject to the NO_x RACT requirements set forth in 6 NYCRR Part 227-2. In order to demonstrate compliance with these requirements, Bowline has developed and submitted a NO_x RACT analysis to the Department on 11/30/2022.

For the plant to comply with the NO_x RACT requirements, Bowline will perform system wide averaging when firing oil or natural gas during both the ozone and non-ozone seasons. The system NO_x emission limit will depend on the specified regulatory emission limit and the relative contribution to the total system heat input of each equipment type.

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BART and RACT have been determined to be equivalent. Bowline will re-evaluate RACT for oil firing upon each renewal as the presumptive NOx RACT limit for the main boilers is 0.15 lb/MMBtu (for very large gas/oil boilers).

The facility submitted an updated NOx RACT analysis for firing oil with a justification for a case-by-case NOx limit of 0.25 lb/MMBtu.

Background: Title V facilities that contain stationary combustion sources subject to Subpart 227-2 which use alternative NOx RACT analyses or case-by-case NOx RACT analyses to comply with the regulation, are required to re-evaluate NOx RACT once every five years when their Title V permit is being renewed.

Issue: Facilities are having issues getting companies to provide cost estimates and quotes. The companies do not want to spend the time and money providing these estimates and quotes only to have the facility cost out of NOx RACT and not purchase the control equipment.

RACT Re-evaluation Procedures: Facilities required to re-evaluate RACT must establish a list of available control technologies for their combustion equipment. If no new control technologies are available beyond those previously evaluated, the facility will not be required to solicit new quotes from manufacturers/vendors. Instead, the facility will be allowed to inflationary calculate both the equipment and installation costs from the previous RACT submission, using the Federal Bureau of Labor Statistics Inflation Calculator. Please note that these procedures apply only to existing control technologies. New technologies that have become available since a previous RACT analysis/re-evaluation must have quotes from manufacturers/vendors. Once the facility has either the quotes for new equipment and installation or the inflationary calculated cost figures for the existing equipment and installation, they are then required to re-evaluate RACT using DAR-20.

Facilities that use inflationary calculations will be required to explain, in the NOx RACT analysis, which control technologies cost figures were generated in this manner. Only the equipment and Installations costs are allowed to be inflationary calculated all other figures used in the RACT analysis, as required in DAR-20, must be based on current cost figures and interest rates.

The permit engineer has reviewed the analysis and has determined it is complete and approvable. The analysis will be submitted to EPA using our pre-agreed procedures.

6 NYCRR Part 242

6 NYCRR Part 242 (Part 242) applies to any unit that serves an electricity generator with a capacity greater than 25 megawatts on or after January 1, 2005. The Bowline Generating Station meets these criteria and is therefore subject to the requirements of Part 242. Part 242 requires Bowline to participate in the CO2 Budget Trading Program, and to maintain the necessary records and certifications to demonstrate compliance.

6 NYCRR Part 249

The Bowline Generating Station is subject to the requirements of 6 NYCRR Part 249 because the facility operates two fossil fuel fired boilers with heat inputs greater than 250 MMBtu/hr. The facility shows compliance by limiting the amount of fuel oil they fire and limiting their NOx emissions.

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To satisfy BART, the facility must limit the amount of oil fired in the main units to no more than 193.2 million gallons during the non-ozone season (October 1 – April 30) and no more than 130.2 million gallons during the ozone season (May 1 – September 30). These BART limits are much higher than what will be allowed under the limited oil firing provisions of Subpart UUUUU the utility boiler MACT. If the facility decides to become subject to the limits of the NESHAP regulation, the BART oil limits would become enforceable conditions in the permit again.

The BART limit for the main boilers firing natural gas is 0.15 lb/MMBtu (a 30-day average during the non-ozone season and a 24-hour average during the ozone season). The case-by-case limit for the main boilers firing #6 fuel oil is 0.25 lb/MMBtu (a 30-day average during the non-ozone season and a 24-hour average during the ozone season).

Climate Leadership and Community Protection Act (CLCPA)

The facility addressed both Sections 7(2) and 7(3) of CLCPA as part of the Air Title V renewal application. The analysis included potential past, actual, and projected future Greenhouse Gas (GHG) emissions and CO₂e calculations. According to the analysis, a potential option to reduce GHG emissions is Hydrogen Fuel.