

**Division of Air Resources
Permit Review Report**

Permit ID: 3-3922-00003/00008

Renewal Number: 3

Modification Number: 2 12/22/2021

Facility Identification Data

Name: BOWLINE GENERATING STATION

Address: 140 SAMSONDALE AVE

WEST HAVERSTRAW, NY 10993

Owner/Firm

Name: GENON BOWLINE LLC

Address: 140 SAMSONDALE AVE

WEST HAVERSTRAW, NY 10993, USA

Owner Classification: Corporation/Partnership

Permit Contacts

Division of Environmental Permits:

Name: CHRISTOPHER LANG

Address: NYSDEC - REGION 3

21 S PUTT CORNERS RD

NEW PALTZ, NY 12561-5401

Phone:

Division of Air Resources:

Name: ALYSSA CARBONE

Address: NYSDEC - REGION 3

21 S Putt Corners Rd

New Paltz, NY 12561-1620

Phone:8452563058

Air Permitting Contact:

Name: CHRISTINE CROYLE

Address: 140 SAMSONDALE AVE

WEST HAVERSTRAW, NY 10993

Phone:8457868008

**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

Permit Transfer.

Attainment Status

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

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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 (PM10)	ATTAINMENT
Sulfur Dioxide (SO2)	ATTAINMENT
Ozone*	SEVERE NON-ATTAINMENT
Oxides of Nitrogen (NOx)**	ATTAINMENT
Carbon Monoxide (CO)	ATTAINMENT

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

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

Facility Description:

This facility consists of two multiple fuel-fired boilers rated at 5,546 MMBTU and 5,374 MMBTU. This facility also has a 615 KW emergency generator, several storage tanks for fuels, lubricating oils, and chemicals. Other sources include a wastewater treatment plant and a small gas dispensing station.

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
- 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

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input of 5,374 MMBtu/hr. 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 - A Babcock & Wilcox opposed wall-fired boiler fires natural gas and has a maximum firing rate of 5347 MMBtu/hr with 32 burners. This unit provides steam to generate electricity. This unit uses off-stoichiometric firing, overfire air, and windbox flue gas recirculation to control NOx.

Process: 2OL is located at Ground, Building BLD01 - A Babcock & Wilcox opposed wall-fired boiler fires no. 6 fuel oil and has a maximum firing rate of 5347 MMBtu/hr with 32 burners. This unit provides steam to generate electricity. This unit uses off-stoichiometric firing, overfire air, and windbox flue gas recirculation for NOx control.

Process: 2WL is located at Ground, Building BLD01 - This Babcock and Wilcox opposed wall-fired boiler has a maximum firing rate of 5,374 mmBTU/hr and has 32 burners. This unit uses off-stoichiometric firing, overfire air and windbox flue gas recirculation for NOx control. This emission unit also fires on-site generated waste oil.

Emission unit U00002 -

Emission unit 100001 - Boiler No. 1 – A Combustion Engineering tangentially-fired boiler with a rated heat input of 5546 MMBtu/hr. 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 BLD01 - A natural gas-fired stationary combustion unit rated at 5546 MMBtu/hr with 20 burners and quadruple nozzle combustion. Unit operated to produce electricity. Off-stoichiometric firing is used for NOx control.

Process: 1OL is located at Ground, Building BLD01 - A tangentially No. 6 oil-fired stationary combustion unit rated at 5546 MMBtu/hr with 20 burners. Unit operated to produce electricity. Off-stoichiometric firing is used for NOx control.

Process: 1WL is located at Ground, Building BLD01 - A tangentially-fired stationary combustion unit rated at 5546 MMBtu/hr with 20 burners. Unit operated to produce electricity. Off-stoichiometric firing is used for NOx control. This emissions unit also fires 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:

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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 to the principal air pollution regulatory programs:

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

NOTES:

PSD Prevention of Significant Deterioration (40 CFR 52, 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

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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) - 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

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1-01-006-04	ELECTRIC UTILITY BOILER - RESIDUAL OIL Grade 6 Oil: Tangential Firing
	EXTERNAL COMBUSTION BOILERS - ELECTRIC GENERATION
	ELECTRIC UTILITY BOILER - NATURAL GAS Tangentially Fired Units
1-01-013-02	EXTERNAL COMBUSTION BOILERS - ELECTRIC 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			0.0007	
000075-07-0	ACETALDEHYDE			0.014	
000107-02-8	ACROLEIN			0.0017	
007440-36-0	ANTIMONY		1.68	450	
007440-38-2	ARSENIC			1114	
000071-43-2	BENZENE			1228	
007440-41-7	BERYLLIUM			41	
007440-43-9	CADMIUM			2062	
000124-38-9	CARBON DIOXIDE		8016940.32		
0NY750-00-0	CARBON DIOXIDE		8069831.25		
	EQUIVALENTS				
000630-08-0	CARBON MONOXIDE		2741.28	2078	
007440-47-3	CHROMIUM			1250	
007440-48-4	COBALT		1.93	1182	
000100-41-4	ETHYLBENZENE			0.025	
000050-00-0	FORMALDEHYDE		19.56	5866	
000110-54-3	HEXANE		83.84	0.35	
007439-92-1	LEAD		0.96	1900	
007439-96-5	MANGANESE			724	
007439-97-6	MERCURY			559	
000074-82-8	METHANE		107.15		
001634-04-4	METHYL TERTBUTYL			3	

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	ETHER		
000091-20-3	NAPHTHALENE		0.0015
007440-02-0	NICKEL METAL AND INSOLUBLE COMPOUNDS	27.1	22780
010024-97-2	NITROUS OXIDE	169.95	
0NY210-00-0	OXIDES OF NITROGEN	11963.9	7078
0NY075-00-0	PARTICULATES	4783.21	330
000540-84-1	PENTANE, 2,2,4- TRIMETHYL-		0.17
012185-10-3	PHOSPHOROUS	3.03	
0NY075-02-5	PM 2.5	4783.21	
0NY075-00-5	PM-10	4783.21	410590
007782-49-2	SELENIUM		371
007446-09-5	SULFUR DIOXIDE	18630.08	58
000108-88-3	TOLUENE	1.99	0.28
0NY100-00-0	TOTAL HAP		39614
0NY998-00-0	VOC	256.44	153
001330-20-7	XYLENE, M, O & P MIXT.		0.1

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.

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.

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- 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 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.

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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 201-6.7 and Part 621.
- ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- 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 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.

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Item A: Emergency Defense - 6 NYCRR 201-1.5

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

(a) The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

- (1) An emergency occurred and that the facility owner or operator can identify the cause(s) of the emergency;
- (2) The equipment at the permitted facility causing the emergency was at the time being properly operated and maintained;
- (3) During the period of the emergency the facility owner or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
- (4) The facility owner or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

(b) In any enforcement proceeding, the facility owner or operator seeking to establish the occurrence of an emergency has the burden of proof.

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

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Regulatory Analysis

Location Facility/EU/EP/Process/ES	Regulation	Condition	Short Description
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FACILITY	ECL 19-0301	49	Powers and Duties of the Department with respect to air pollution control
FACILITY	40CFR 63- UUUUU.10000 (c)	32	Coal and Oil Fired EGU NESHAP - Limited Use Boiler Requirements
FACILITY	40CFR 63- UUUUU.10021 (e)	33	Coal and Oil Fired EGU NESHAP - Tune up Provisions
FACILITY	40CFR 68	19	Chemical accident prevention provisions
FACILITY	40CFR 72-A.6(a) (2)	34	The Facilities which are in Phase 2 of Title IV and are listed in Table 2 or 3 of 40 CFR Part 73.10.
FACILITY	40CFR 75	35	Continuous emission monitoring
FACILITY	40CFR 82-F	20	Protection of Stratospheric Ozone - recycling and emissions reduction
FACILITY	40CFR 97-AAAAA.406	36	Transport Rule (TR) NOx Annual Trading Program Standard Requirements
FACILITY	40CFR 97-BBBBB.506	37	Transport Rule (TR) NOx Ozone Season Group 1 Trading Program Standard Requirement
FACILITY	40CFR 97-CCCCC.606	38	Transport Rule (TR) SO2 Group 1 Trading Program Standard Requirements
FACILITY	6NYCRR 200.6	1	Acceptable ambient air quality.
FACILITY	6NYCRR 200.7	10, 2 -2	Maintenance of equipment.
FACILITY	6NYCRR 201-1.4	50, 2 -5	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	21, 39, 40	Title V Permits and the Associated Permit

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FACILITY	6NYCRR 201-6.4 (a) (4)	15	Conditions
			General Conditions -
			Requirement to
FACILITY	6NYCRR 201-6.4 (a) (7)	2	Provide Information
			General Conditions -
FACILITY	6NYCRR 201-6.4 (a) (8)	16	Fees
			General Conditions -
FACILITY	6NYCRR 201-6.4 (c)	3	Right to Inspect
			Recordkeeping and
			Reporting of
FACILITY	6NYCRR 201-6.4 (c) (2)	4	Compliance Monitoring
			Records of
			Monitoring, Sampling
			and Measurement
FACILITY	6NYCRR 201- 6.4 (c) (3) (ii)	5	Reporting
			Requirements -
			Deviations and
FACILITY	6NYCRR 201-6.4 (d) (4)	22	Noncompliance
			Compliance Schedules
FACILITY	6NYCRR 201-6.4 (e)	6	- Progress Reports
			Compliance
FACILITY	6NYCRR 201-6.4 (f)	2 -3	Certification
			Operational
			Flexibility
FACILITY	6NYCRR 201-6.4 (f) (6)	17	Off Permit Changes
FACILITY	6NYCRR 202-1.1	18	Required emissions
			tests.
FACILITY	6NYCRR 202-2.1	7	Emission Statements -
			Applicability
FACILITY	6NYCRR 202-2.5	8, 2 -1	Emission Statements -
			record keeping
			requirements.
FACILITY	6NYCRR 211.1	23	General Prohibitions
			- air pollution
			prohibited
FACILITY	6NYCRR 211.2	2 -4	General Prohibitions
			- visible emissions
			limited.
FACILITY	6NYCRR 215.2	9	Open Fires -
			Prohibitions
FACILITY	6NYCRR 225-1.2 (d)	24	Sulfur-in-Fuel
			Limitations
FACILITY	6NYCRR 225-1.2 (i)	25	Sulfur-in-Fuel
			Limitations
1-00001/00001	6NYCRR 227-1.2 (a) (1)	44	Particulate Emissions
			from Liquid Fuels.
FACILITY	6NYCRR 227-1.3 (a)	26, 27	Smoke Emission
			Limitations.
1-00001/00001	6NYCRR 227-1.4 (b)	45	Stack Monitoring
FACILITY	6NYCRR 227-2.5 (b)	28, 29	System averaging
			plan.
1-00002	6NYCRR 231-11.2 (c)	46	Reasonable
			Possibility
			requirements for
			insignificant mods -
			greater than 50% with
			excluded emissions
FACILITY	6NYCRR 242-1.5	51, 52	CO2 Budget Trading
			Program - Standard
			requirements
FACILITY	6NYCRR 242-4	53	CO2 Budget Trading
			Program - Compliance
			certification
FACILITY	6NYCRR 242-8.5	54	CO2 Budget Trading
			Program -

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FACILITY	6NYCRR 249.3(a)	30, 31	Recordkeeping and reporting BART Emission Limitation Requirements for Sources
1-00001/-/1GS	6NYCRR 249.3(a)	42, 43	BART Emission Limitation Requirements for Sources
1-00002/-/2GS	6NYCRR 249.3(a)	1 -1, 1 -2	BART Emission Limitation Requirements for Sources
1-00001	6NYCRR 249.3(f)	41	Each BART determination established by the Department will be submitted to the EPA for approval as a SIP revision.

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,

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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)

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

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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 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 202-2.1

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

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.

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

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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 63.10000 (c) (2) (iv)

This condition states the requirements with which a limited use boiler must comply.

40 CFR 63.10021 (e)

This section describes the performance tune-up requirements for electric generating units that are subject to the requirements of 40 CFR 63 Subpart UUUUU.

40 CFR 72.6 (a) (2)

This section references tables containing a list of utilities affected by Phase II of Title IV of the Clean Air Act. It also references the exceptions, or those that are exempt.

40 CFR 97.406

This condition provides the general requirements for implementing EPAs 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 97.506

This condition provides the general requirements for implementing EPAs Transport Rule (TR) 40 CFR Part 97, Subpart BBBB; 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) during the ozone season (May through September) and to hold TR ozone season 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.

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40 CFR 97.606

This condition provides the general requirements for implementing EPA's Transport Rule (TR) 40 CFR Part 97, Subpart CCCC; 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 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 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)

Sulfur-in-fuel limitations that fire residual oil in the downstate after July 1, 2014.

6 NYCRR 225-1.2 (i)

Sulfur-in-fuel limitation for the firing of waste oil on or after July 1, 2014.

6 NYCRR 227-1.2 (a) (1)

This regulation establishes a particulate emission limit in terms of lbs per mmBtu of heat input for stationary combustion units of greater than 250 mmBtu/hr heat input capacity which fire coal, oil, or coal derived fuels.

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6 NYCRR 227-1.3 (a)

This regulation prohibits any person from operating a stationary combustion installation which emits smoke equal to or greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.

6 NYCRR 227-1.4 (b)

This regulation requires the specific contents of excess emissions reports for opacity from facilities that employ continuous opacity monitors (COMs).

6 NYCRR 227-2.5 (b)

System averaging plan NO_x RACT compliance option.

6 NYCRR 231-11.2 (c)

This citation lists the record keeping requirements for insignificant modifications that are greater than 50% of the threshold including excluded emissions as defined in 231-4.1(b)(40)(i)(c) of this Part.

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)

This citation states that each determination made under Part 249 will be submitted to the USEPA.

6 NYCRR Subpart 242-4

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

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	36	record keeping/maintenance procedures
FACILITY	37	record keeping/maintenance procedures
FACILITY	38	record keeping/maintenance procedures
FACILITY	5	record keeping/maintenance procedures
FACILITY	6	record keeping/maintenance procedures
FACILITY	7	record keeping/maintenance procedures
FACILITY	24	work practice involving specific operations
FACILITY	25	work practice involving specific operations
1-00001/00001	44	intermittent emission testing
FACILITY	26	record keeping/maintenance procedures
FACILITY	27	monitoring of process or control device parameters as surrogate
1-00001/00001	45	record keeping/maintenance procedures
FACILITY	28	record keeping/maintenance procedures
FACILITY	29	record keeping/maintenance procedures
1-00002	46	record keeping/maintenance procedures
FACILITY	51	record keeping/maintenance procedures
FACILITY	52	record keeping/maintenance procedures
FACILITY	53	record keeping/maintenance procedures
FACILITY	54	record keeping/maintenance procedures
FACILITY	30	work practice involving specific operations
FACILITY	31	work practice involving specific operations
1-00001/-/1GS	42	continuous emission monitoring (cem)
1-00001/-/1GS	43	continuous emission monitoring (cem)
1-00002/-/2GS	1-1	continuous emission monitoring (cem)
1-00002/-/2GS	1-2	continuous emission monitoring (cem)
1-00001	41	record keeping/maintenance procedures

Basis for Monitoring

Reasonably Available Control Technology for Oxides of Nitrogen (NOx 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 NOx RACT requirements set forth in 6 NYCRR Part 227-2. In order to demonstrate compliance with these requirements, Bowline has developed and submitted a NOx RACT analysis to the Department on 12/22/2016.

In order to comply with the NOx RACT requirements, Bowline will perform system wide averaging when firing oil or natural gas during both the ozone and non-ozone seasons. The system NOx emission limit will

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depend on the specified regulatory emission limit and the relative contribution to the total system heat input of each equipment type.

40 CFR 63 Subpart UUUUU

Bowline units 1 and 2 qualify as limited-use liquid oil-fired units, as defined in 40 CFR 63.10042. They are not subject to the emission limits in Tables 1 and 2 of subpart UUUUU, but must comply with the performance tune-up work practice requirements in Table 3. Accordingly, only the work practice tune-up requirements have been included in this permit.

40 CFR 63 Subpart DDDDD

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.

6 NYCRR Part 225-1

Bowline Units 1 and 2 are subject to the requirements of 6 NYCRR Part 225-1 because they facility has the ability to 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.

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.

6 NYCRR Part 231

Bowline Unit 2 underwent a modification that is subject to the requirements of 6 NYCRR Part 231-11.2(c). In order to demonstrate compliance, this facility must maintain records and submit periodic reports as described in that section.

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 NOx and SO2 in accordance with the emissions trading program.

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.