

**Division of Air Resources
Permit Review Report**

Permit ID: 4-3844-00008/00006
Renewal Number: 3
03/24/2023

Facility Identification Data

Name: CASTLETON ENERGY CENTER
Address: 1902 RIVER RD|ST RTE 9J
CASTLETON ON HUDSON, NY 12033

Owner/Firm

Name: CASTLETON POWER LLC
Address: 1902 RIVER RD
CASTLETON ON HUDSON, NY 12033, USA
Owner Classification: Corporation/Partnership

Permit Contacts

Division of Environmental Permits:
Name: PATRICK CONNALLY
Address: NYSDEC - Region 4
1130 N Westcott Rd
Schenectady, NY 12306-2014
Phone:5183572069

Division of Air Resources:
Name: EDWARD A PELLEGRINI
Address: NYSDEC - REGION 4
1130 N WESTCOTT RD
SCHENECTADY, NY 12306

Air Permitting Facility Owner Contact:
Name: STEPHEN G KONISKY
Address: Castleton Energy Center
1902 RIVER RD
CASTLETON ON HUDSON, NY 12033
Phone:5187324400

**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

Application for renewal of Air Title V Facility Permit.

Attainment Status

CASTLETON ENERGY CENTER is located in the town of SCHODACK in the county of

**Division of Air Resources
Permit Review Report**

Permit ID: 4-3844-00008/00006

Renewal Number: 3

03/24/2023

RENSSELAER.

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*	MARGINAL NON-ATTAINMENT
Oxides of Nitrogen (NOx)**	ATTAINMENT
Carbon Monoxide (CO)	ATTAINMENT

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

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

Facility Description:

The facility consists of one (1) natural gas fired General Electric Frame 6B gas combustion turbine generator (CTG) and a Deltak heat recovery steam generator (HRSG) with supplementary duct firing, generating steam and electric power. The net power output for the plant is approximately 65-77 megawatts (MW). Although the CTG is fired primarily with natural gas, No. 2 fuel oil is used as a backup fuel. The maximum heat input capacity of the CTG is approximately 487.2 mmBtu/hr.

The duct burner fires on natural gas only and has a maximum heat input capacity of 125 mmBtu/hr. Nitrogen oxide (NOx) emissions from the CTG are controlled by water injection. The facility also operates an auxiliary boiler, which was de-rated from an original nameplate rate of 95 MMBtu/hr to a new rate of 24.4 MMBtu/hr. CEC also maintains a 446 HP Detroit Diesel starting diesel engine and a 208 HP Cummings diesel fire pump, both of which were previously identified as exempt and trivial emission sources at this facility.

Permit Structure and Description of Operations

The Title V permit for CASTLETON ENERGY CENTER

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

**Division of Air Resources
Permit Review Report**

Permit ID: 4-3844-00008/00006

Renewal Number: 3

03/24/2023

(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.

CASTLETON ENERGY CENTER is defined by the following emission unit(s):

Emission unit 10GTDB - Emission unit consists of GE frame 6 gas turbine/hrsg with supplemental firing of a duct burner. The turbine is capable of firing on natural gas or number 2 low sulfur fuel oil. The duct burn fires on natural gas only. The gas turbine has a maximum heat input capacity of 489.2 mmbtu/hr and the duct burner has a maximum heat input capacity of 125 mmbtu/hr. The gas turbine is equipped with a steam injection system to control NOx emissions.

Emission unit 10GTDB is associated with the following emission points (EP):

00001

Process: GTB is located at GROUND, Building MAIN -

Process: GTO is located at GROUND, Building MAIN -

Process: NG2 is located at Building MAIN -

Process: NG3 is located at Building MAIN -

Process: OIL is located at Building MAIN -

Process: SDN is located at Building MAIN -

Process: SDO is located at Building MAIN -

Process: SUN is located at Building MAIN -

Process: SUO is located at Building MAIN -

Emission unit 100AUX - Johnston 2000 hp fire tube boiler. This boiler has been derated from a original nameplate rate of 95 MMBtu/hr to a new rate of 24.4 MMBtu/hr. This auxiliary boiler is fired on natural gas only and is equipped with a low NOx burner.

Emission unit 100AUX is associated with the following emission points (EP):

00005

Title V/Major Source Status

CASTLETON ENERGY CENTER is subject to Title V requirements. This determination is based on the following information:

This facility is subject to Title V requirements. This determination is

based on the following information:

The facility is major because its potential to emit for NOx exceeds the major source title V threshold of 50 tons per year.

Program Applicability

The following chart summarizes the applicability of CASTLETON ENERGY CENTER with regards to the principal air pollution regulatory programs:

**Division of Air Resources
Permit Review Report**

Permit ID: 4-3844-00008/00006

Renewal Number: 3

03/24/2023

Regulatory Program	Applicability
PSD	NO
NSR (non-attainment)	NO
NESHAP (40 CFR Part 61)	NO
NESHAP (MACT - 40 CFR Part 63)	NO
NSPS	YES
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 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

**Division of Air Resources
Permit Review Report**

Permit ID: 4-3844-00008/00006
Renewal Number: 3
03/24/2023

equipment such as air conditioners, refrigeration equipment or motor vehicle air conditioners or appliances.

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

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

Compliance Status

Facility is in compliance with all requirements.

SIC Codes

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

SIC Code

Description

4911	ELECTRIC SERVICES
4931	ELEC & OTHER SERVICES COMBINED

SCC Codes

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

SCC Code

Description

1-01-006-01	EXTERNAL COMBUSTION BOILERS - ELECTRIC GENERATION ELECTRIC UTILITY BOILER - NATURAL GAS Boilers > 100 MBtu/Hr except Tangential
1-02-006-02	EXTERNAL COMBUSTION BOILERS - INDUSTRIAL INDUSTRIAL BOILER - NATURAL GAS 10-100 MMBtu/Hr
2-02-001-03	INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION ENGINE - DISTILLATE OIL(DIESEL) Turbine: Cogeneration
2-02-002-03	INTERNAL COMBUSTION ENGINES - INDUSTRIAL

**Division of Air Resources
Permit Review Report**

**Permit ID: 4-3844-00008/00006
Renewal Number: 3
03/24/2023**

INDUSTRIAL INTERNAL COMBUSTION ENGINE -
NATURAL GAS
Turbine: Cogeneration

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 of 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
007440-38-2	ARSENIC	0.2			
007440-43-9	CADMIUM	8.4			
000124-38-9	CARBON DIOXIDE		296001		
000630-08-0	CARBON MONOXIDE		61.6		
007440-47-3	CHROMIUM	10.6			
000050-00-0	FORMALDEHYDE	2519.3			
007439-92-1	LEAD	8.9			
007439-96-5	MANGANESE	600.4			
007439-97-6	MERCURY	0.9			
0NY059-28-0	NICKEL (NI 059)	3.5			
0NY210-00-0	OXIDES OF NITROGEN		157.49		
0NY075-00-0	PARTICULATES		19.6		
0NY075-00-5	PM-10		19.6		
007782-49-2	SELENIUM	19			
007446-09-5	SULFUR DIOXIDE		2.6		
0NY100-00-0	TOTAL HAP		9.1		
0NY998-00-0	VOC		20.5		

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

**Division of Air Resources
Permit Review Report**

Permit ID: 4-3844-00008/00006

Renewal Number: 3

03/24/2023

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.

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

Division of Air Resources
Permit Review Report

Permit ID: 4-3844-00008/00006

Renewal Number: 3

03/24/2023

conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and are specifically identified in the permit, or the Department, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the major stationary source, and the permit includes the determination or a concise summary thereof. Nothing herein shall preclude the Department from revising or revoking the permit pursuant to 6 NYCRR Part 621 or from exercising its summary abatement authority. Nothing in this permit shall alter or affect the following:

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

Item J: Reopening for Cause - 6 NYCRR 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

**Division of Air Resources
Permit Review Report**

Permit ID: 4-3844-00008/00006

Renewal Number: 3

03/24/2023

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.

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.

**Division of Air Resources
Permit Review Report**

Permit ID: 4-3844-00008/00006
Renewal Number: 3
03/24/2023

- (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.

Regulatory Analysis

Location Facility/EU/EP/Process/ES	Regulation	Condition	Short Description

FACILITY	ECL 19-0301	84	Powers and Duties of the Department with respect to air pollution control
FACILITY	40CFR 60-A.11	61	General provisions - compliance with standards and maintenance requirements
FACILITY	40CFR 60-A.11 (d)	62	General provisions - compliance with standards and maintenance requirements
FACILITY	40CFR 60-A.12	63	General provisions - Circumvention
FACILITY	40CFR 60-A.13 (d)	64	General provisions - Monitoring requirements
FACILITY	40CFR 60-A.14	65	General provisions - Modification
FACILITY	40CFR 60-A.15	66	General provisions - Reconstruction
FACILITY	40CFR 60-A.4	50	General provisions - Address
FACILITY	40CFR 60-A.7 (b)	51	Notification and Recordkeeping
FACILITY	40CFR 60-A.7 (d)	52	Notification and

Division of Air Resources Permit Review Report

Permit ID: 4-3844-00008/00006

Renewal Number: 3

03/24/2023

FACILITY	40CFR 60-A.7(f)	53	Recordkeeping Notification and Recordkeeping
FACILITY	40CFR 60-A.8(a)	54	Performance Tests
FACILITY	40CFR 60-A.8(b)	55	Performance Tests
FACILITY	40CFR 60-A.8(c)	56	Performance Tests
FACILITY	40CFR 60-A.8(d)	57	Performance Tests
FACILITY	40CFR 60-A.8(e)	58	Performance Tests
FACILITY	40CFR 60-A.8(f)	59	Performance Tests
FACILITY	40CFR 60-A.9	60	General provisions - Availability of information
1-0GTDB/-/GTO	40CFR 60-Db.42b(j)	82	Exemption from Standards for Sulfur Dioxide.
1-0GTDB/-/OIL	40CFR 60-Db.42b(j)	83	Exemption from Standards for Sulfur Dioxide.
FACILITY	40CFR 60-Db.44b(h)	67	Standards for Nitrogen Oxides Provisions.
1-0GTDB	40CFR 60-Db.49b	81	Reporting and Recordkeeping Requirements.
FACILITY	40CFR 60-Dc.40c	68	Steam generators 10- 100 million Btu per hour
FACILITY	40CFR 60-GG.334(b)	69	Monitoring of Operations: CEMS
FACILITY	40CFR 60-GG.334(h)(3)	70	Allowance not to monitor sulfur or nitrogen for natural gas
FACILITY	40CFR 60-GG.334(j)	71	Reporting Requirements
FACILITY	40CFR 68	17	Chemical accident prevention provisions
FACILITY	40CFR 72	72	Permits regulation
FACILITY	40CFR 82-F	18	Protection of Stratospheric Ozone - recycling and emissions reduction
FACILITY	40CFR 97-AAAAA.406	73	Transport Rule (TR) NOx Annual Trading Program Standard Requirements
FACILITY	40CFR 97-CCCCC.606	74	Transport Rule (TR) SO2 Group 1 Trading Program Standard Requirements
FACILITY	40CFR 97-GGGGG.1006	75	CSAPR NOx Ozone Season Group 3 Trading Program Standard Requirements
FACILITY	6NYCRR 200.6	1	Acceptable ambient air quality.
FACILITY	6NYCRR 200.7	10	Maintenance of equipment.
FACILITY	6NYCRR 201-1.4	85	Unavoidable noncompliance and violations
FACILITY	6NYCRR 201-1.7	11	Recycling and Salvage
FACILITY	6NYCRR 201-1.8	12	Prohibition of reintroduction of collected

**Division of Air Resources
Permit Review Report**

Permit ID: 4-3844-00008/00006

Renewal Number: 3

03/24/2023

FACILITY	6NYCRR 201-3.2 (a)	13	contaminants to the air
FACILITY	6NYCRR 201-3.3 (a)	14	Exempt Activities - Proof of eligibility
FACILITY	6NYCRR 201-6	19, 76, 77	Trivial Activities - proof of eligibility
1-0GTDB	6NYCRR 201-6.4	78, 79, 80	Title V Permits and the Associated Permit Conditions
FACILITY	6NYCRR 201-6.4 (a)	20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35	Standard Permit Requirements
FACILITY	6NYCRR 201-6.4 (a) (4)	15	General Conditions
FACILITY	6NYCRR 201-6.4 (a) (7)	2	Requirement to Provide Information
FACILITY	6NYCRR 201-6.4 (a) (8)	16	General Conditions - Fees
FACILITY	6NYCRR 201-6.4 (c)	3	General Conditions - Right to Inspect
FACILITY	6NYCRR 201-6.4 (c) (2)	4	Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.4 (c) (3) (ii)	5	Records of Monitoring, Sampling and Measurement
FACILITY	6NYCRR 201-6.4 (d) (4)	36	Reporting Requirements - Deviations and Noncompliance
FACILITY	6NYCRR 201-6.4 (e)	6	Compliance Schedules - Progress Reports
FACILITY	6NYCRR 201-6.4 (f)	37	Compliance Certification
FACILITY	6NYCRR 201-6.5 (a)	86, 87, 88, 89, 90, 91, 92, 93, 94	Operational Flexibility
FACILITY	6NYCRR 202-1.1	38	State Enforceable Requirements
FACILITY	6NYCRR 202-1.3	39	Required emissions tests.
FACILITY	6NYCRR 202-1.3 (a)	40	Acceptable procedures.
FACILITY	6NYCRR 202-2.1	7	Acceptable procedures - reference methods
FACILITY	6NYCRR 202-2.4 (a) (3)	41	Emission Statements - Applicability
FACILITY	6NYCRR 202-2.5	8	Emission statement methods and procedures
FACILITY	6NYCRR 211.1	95	Emission Statements - record keeping requirements.
FACILITY	6NYCRR 211.2	42	General Prohibitions - air pollution prohibited
FACILITY	6NYCRR 215.2	9	General Prohibitions - visible emissions limited.
FACILITY	6NYCRR 225-1.2 (d)	43	Open Fires - Prohibitions
			Sulfur-in-Fuel Limitation - Distillate Oil

**Division of Air Resources
Permit Review Report**

Permit ID: 4-3844-00008/00006

Renewal Number: 3

03/24/2023

FACILITY	6NYCRR 225-1.5 (c)	44	Fuel Monitoring
FACILITY	6NYCRR 227-1.3 (a)	45	Particulate Emission Standards
FACILITY	6NYCRR 227-1.4 (a)	46, 47	Opacity Standard
FACILITY	6NYCRR 227-2.4 (d)	48	Small boilers, small combustion turbines, and small stationary internal combustion engines.
FACILITY	6NYCRR 227-2.5 (c)	49	Alternative RACT option.
FACILITY	6NYCRR 242-1.5	96	CO2 Budget Trading Program - Standard requirements
FACILITY	6NYCRR 242-4	97	CO2 Budget Trading Program - Compliance certification
FACILITY	6NYCRR 242-8.5	98	CO2 Budget Trading Program - Recordkeeping and reporting
1-0GTDB	6NYCRR 251.3 (b)	99	Emission limits for non-modified sources.

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

Division of Air Resources
Permit Review Report

Permit ID: 4-3844-00008/00006

Renewal Number: 3

03/24/2023

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)

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

Division of Air Resources
Permit Review Report

Permit ID: 4-3844-00008/00006

Renewal Number: 3

03/24/2023

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

40 CFR Part 82, Subpart F

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

**Division of Air Resources
Permit Review Report**

Permit ID: 4-3844-00008/00006

Renewal Number: 3

03/24/2023

Facility Specific Requirements

In addition to Title V, CASTLETON ENERGY CENTER has been determined to be subject to the following regulations:

40 CFR 60.11

This regulation specifies the type of opacity monitoring requirements in relation to compliance with the standards and maintenance requirements.

40 CFR 60.11 (d)

This regulation specifies the type of opacity monitoring requirements in relation to compliance with the standards and maintenance requirements.

40 CFR 60.12

This regulation prohibits an owner or operator from concealing emissions in violation of applicable standards by any means.

40 CFR 60.13 (d)

This regulation contains the requirements for daily drift testing for continuous monitoring systems required by 40 CFR Part 60.

40 CFR 60.14

This regulation defines the term modification and what is and is not considered to be a modification, for the purpose of rule applicability.

40 CFR 60.15

This regulation defines the term reconstruction and what is and is not considered to be a reconstruction project, for the purpose of rule applicability.

40 CFR 60.334 (b)

This regulation allows the owner/operator of a gas turbine to use a CEMS to monitor NO_x emissions instead of monitoring fuel and water/steam usage.

40 CFR 60.334 (h) (3)

This regulation allows the owner or operator of a gas turbine to not monitor the fuel for sulfur or nitrogen content if the fuel meets the 40 CFR 60.331(u) definition of natural gas.

40 CFR 60.334 (j)

This regulation sets forth the reporting requirements for affected units that continuously monitor parameters or emissions or those that periodically determine the sulfur and/or nitrogen content of the fuel burned in a gas turbine.

Division of Air Resources
Permit Review Report

Permit ID: 4-3844-00008/00006

Renewal Number: 3

03/24/2023

40 CFR 60.4

This condition lists the USEPA Region 2 address for the submittal of all communications to the "Administrator". In addition, all such communications must be copied to NYSDEC Bureau of Quality Assurance (BQA).

40 CFR 60.40c

This regulation requires the source owner or operator to comply with the applicable General Provisions of 40 CFR 60 Subpart Dc. The facility owner is responsible for reviewing these general provisions in detail and complying with all applicable technical, administrative and reporting requirements.

40 CFR 60.42b (j)

This subdivision contains an exemption from the percent reduction requirements if the affected facility fires very low sulfur content oil.

40 CFR 60.44b (h)

This regulation specifies that the NSPS nitrogen oxide standards apply at all time including periods of startup, shutdown, or malfunction.

40 CFR 60.49b

This rule specifies the reporting and recordkeeping requirements for affected steam generating units.

40 CFR 60.7 (b)

This regulation requires the owner or operator to maintain records of the occurrence and duration of any startup, shutdown, or malfunction of the source or control equipment or continuous monitoring system.

40 CFR 60.7 (d)

This condition specifies the required information and format for a summary report form and details when either a summary form and/or excess emissions reports are required.

40 CFR 60.7 (f)

This condition specifies requirements for maintenance of files of all measurements, including continuous monitoring system (CMS), monitoring device, and performance testing measurements; all CMS performance evaluations; all CMS or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices for at least two years.

40 CFR 60.8 (a)

This regulation contains the requirements for the completion date and reporting of Performance Testing (stack testing), at the facility. Within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup, the owner or operator of the facility must conduct performance test(s) and furnish a written report of the test results.

**Division of Air Resources
Permit Review Report**

Permit ID: 4-3844-00008/00006

Renewal Number: 3

03/24/2023

40 CFR 60.8 (b)

This regulation contains the requirements for Performance test methods and procedures, to be used by the owner or operator, of the affected facility.

40 CFR 60.8 (c)

This condition contains the requirements for operating conditions, of the emission source, during performance testing.

40 CFR 60.8 (d)

This regulation contains the requirements for advance notification of Performance (stack) testing.

40 CFR 60.8 (e)

This regulation requires the facility to provide appropriate sampling ports, safe platforms and utilities as necessary for Performance (stack) testing.

40 CFR 60.8 (f)

This regulation requires that Performance (stack) tests consist of three runs unless otherwise specified. The rule also designates the allowable averaging methods for the analysis of the results.

40 CFR 60.9

This rule citation allows the public access to any information submitted to the EPA Administrator (or state contact), in conjunction with a project subject to this section of the regulation.

40 CFR 97.1006

40 CFR Part 97 Subpart GGGGG the NO_x Ozone Season Cross State Air Pollution Rule (CSAPR) requires additional NO_x reductions from power plants located in twelve (12) states beginning with the 2021 ozone season. It is designed to reduce NO_x 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 NO_x Ozone Trading Programs. The final rule does not include ozone season NO_x 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 (NO_x) and to hold TR annual NO_x 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.

**Division of Air Resources
Permit Review Report**

Permit ID: 4-3844-00008/00006

Renewal Number: 3

03/24/2023

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 72

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

6 NYCRR 201-6.4

This section identifies all standard requirements for Title V permits.

6 NYCRR 201-6.4 (a)

This section identifies general condition requirements for Title V permits.

6 NYCRR 201-6.4 (f)

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 202-1.3

This regulation requires that any emission testing, sampling and analytical determination used to

**Division of Air Resources
Permit Review Report**

Permit ID: 4-3844-00008/00006

Renewal Number: 3

03/24/2023

determine compliance must use methods acceptable to the department. Acceptable test methods may include but are not limited to the reference methods found in 40 CFR Part 60 appendix A and Part 61, appendix B. Alternate methods may also be used provided they are determined to be acceptable by the department. Finally, unless otherwise specified, all emission test reports must be submitted within 60 days after completion of testing.

6 NYCRR 202-1.3 (a)

This regulation requires that any emission testing, sampling and analytical determination used to determine compliance must use methods acceptable to the department. Acceptable test methods may include but are not limited to the reference methods found in 40 CFR Part 60 appendix A and Part 61, appendix B. In addition, unless otherwise specified, all emission test reports must be submitted within 60 days after completion of testing.

6 NYCRR 202-2.4 (a) (3)

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

6 NYCRR 211.1

This regulation requires that no person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property.

6 NYCRR 225-1.2 (d)

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

6 NYCRR 225-1.5 (c)

This subdivision requires specific measurements of the fuel fired at a facility that employs a CEM.

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 subdivision sets the opacity standard for subject stationary combustion installations.

**Division of Air Resources
Permit Review Report**

Permit ID: 4-3844-00008/00006

Renewal Number: 3

03/24/2023

6 NYCRR 227-2.4 (d)

This section includes NO_x RACT requirements for small boilers, small combustion turbines, and small stationary internal combustion engines.

6 NYCRR 227-2.5 (c)

This provision allows the owner or operator to demonstrate that the applicable presumptive RACT emission limit in section 227-2.4 of this Subpart is not economically or technically feasible. Based on this determination the Department is allowed to set a higher emission source specific emission limit.

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 251.3 (b)

Carbon dioxide emission limits for non-modified sources.

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.

**Division of Air Resources
Permit Review Report**

**Permit ID: 4-3844-00008/00006
Renewal Number: 3
03/24/2023**

**Compliance Certification
Summary of monitoring activities at CASTLETON ENERGY CENTER:**

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

FACILITY	64	record keeping/maintenance procedures
FACILITY	69	record keeping/maintenance procedures
FACILITY	70	record keeping/maintenance procedures
FACILITY	71	record keeping/maintenance procedures
FACILITY	73	record keeping/maintenance procedures
FACILITY	74	record keeping/maintenance procedures
FACILITY	75	record keeping/maintenance procedures
1-0GTDB	78	record keeping/maintenance procedures
1-0GTDB	79	continuous emission monitoring (cem)
1-0GTDB	80	continuous emission monitoring (cem)
FACILITY	20	intermittent emission testing
FACILITY	21	intermittent emission testing
FACILITY	22	intermittent emission testing
FACILITY	23	intermittent emission testing
FACILITY	24	monitoring of process or control device parameters as surrogate
FACILITY	25	monitoring of process or control device parameters as surrogate
FACILITY	26	intermittent emission testing
FACILITY	27	intermittent emission testing
FACILITY	28	intermittent emission testing
FACILITY	29	intermittent emission testing
FACILITY	30	continuous emission monitoring (cem)
FACILITY	31	continuous emission monitoring (cem)
FACILITY	32	continuous emission monitoring (cem)
FACILITY	33	continuous emission monitoring (cem)
FACILITY	34	continuous emission monitoring (cem)
FACILITY	35	continuous emission monitoring (cem)
FACILITY	5	record keeping/maintenance procedures
FACILITY	6	record keeping/maintenance procedures
FACILITY	87	continuous emission monitoring (cem)
FACILITY	88	continuous emission monitoring (cem)
FACILITY	89	continuous emission monitoring (cem)
FACILITY	90	continuous emission monitoring (cem)
FACILITY	91	continuous emission monitoring (cem)
FACILITY	92	continuous emission monitoring (cem)
FACILITY	93	continuous emission monitoring (cem)
FACILITY	94	continuous emission monitoring (cem)
FACILITY	7	record keeping/maintenance procedures
FACILITY	43	work practice involving specific operations
FACILITY	44	record keeping/maintenance procedures
FACILITY	45	intermittent emission testing
FACILITY	46	monitoring of process or control device parameters as surrogate
FACILITY	47	monitoring of process or control device parameters as surrogate
FACILITY	48	record keeping/maintenance procedures
FACILITY	49	continuous emission monitoring (cem)
FACILITY	96	record keeping/maintenance procedures
FACILITY	97	record keeping/maintenance procedures
FACILITY	98	record keeping/maintenance procedures
1-0GTDB	99	continuous emission monitoring (cem)

Division of Air Resources
Permit Review Report

Permit ID: 4-3844-00008/00006

Renewal Number: 3

03/24/2023

Basis for Monitoring

This facility is an electrical generating facility which makes its operations subject to the monitoring provisions as stated in 40 CFR Part 75. This requires the facility to continuously monitor NO_x, carbon monoxide, and ammonia slip in order to demonstrate compliance with the limits for those contaminants through the use of continuous emission monitoring devices.

6 NYCRR Part 227-2, NO_x RACT: This permit contains an overall limit on NO_x of 157 tons/year. In addition, the combustion turbines and duct burners in this permit are subject to LAER requirements for NO_x which are more stringent than the applicable NO_x RACT requirements. The LAER conditions currently in the permit require the facility to install, maintain, and operate NO_x CEMS in accordance with 40 CFR Part 75. Accordingly, the Department has streamlined this permit to include only the more stringent LAER conditions for NO_x emissions. By complying with these requirements the facility is also complying with the applicable provisions of NO_x RACT.

40 CFR Part 60, Subpart KKKK - Standards of Performance for Stationary Combustion Turbines - Although there are some conditions with NO_x and SO₂ limits with regards to subpart KKKK, many of the requirements on subpart KKKK are less stringent than the corresponding requirements that LAER imposes. The LAER conditions currently in the permit already require the facility to install, maintain, and operate NO_x and SO₂ CEMS in accordance with Part 75. Accordingly, the Department has streamlined this permit to include mostly the more stringent LAER conditions for NO_x and SO₂ emissions. By complying with these requirements the facility is also complying with the applicable provisions of Subpart KKKK.

40 CFR Part 64 - Compliance Assurance Monitoring (CAM) - Pre-control emissions of NO_x and CO from this facility exceed the major source thresholds, are subject to a federal emissions standard, and there is water injection to control the NO_x. However, NO_x is exempt from CAM because they are measured with CEMs as described at 40 CFR 64.2(b)(1)(iv). CAM does not apply to emissions of CO from this facility because the facility does not operate active controls for these pollutants. No other pollutant exceeds the major source threshold for CAM.

40 CFR Part 60 Subpart TTTT - Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units - This rule doesn't apply to this facility because this facility was built prior to January 8, 2014 and has not reconstructed or modified to an extent that would make the facility subject to this regulation.