



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 4-3844-00008/00006

Renewal Number: 1

12/17/2015

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: NANCY M BAKER

Address: NYSDEC - REGION 4

1130 N WESTCOTT RD

SCHENECTADY, NY 12306-2014

Phone:5183572069

Division of Air Resources:

Name: FRANCIS V RIEDY

Address: 1130 N WESTCOTT RD

SCHENECTADY, NY 12306

Air Permitting Facility Owner Contact:

Name: JEFFERY WENTZ

Address: EPCOR OPERATIONS USA

2000 YORK RD STE 129

OAK BROOK, IL 60523

Phone:6303710621

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

Title V permit renewal for an existing cogeneration facility. The facility consists of one gas turbine with a heat recovery steam generator, rated at 489.2 mmBTU/hr, used to drive an electric generator. The system is equipped with duct burners rated at 125 mmBTU/hr for supplemental firing. An auxiliary boiler, rated at 95 mmBTU/hr, is used for heating as well as providing steam during turbine startup. Emissions of sulfur dioxide, oxides of nitrogen, carbon monoxide and particulates



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have been restricted by rule and practice to levels below the PSD thresholds for these contaminants. This renewal does not result in a significant net under Part 231-2 or 40 CFR 52.21, so New Source Review and PSD Review is not required.

The minor modification is a result of the facility removing the capability of the auxiliary boiler and the duct burner to fire distillate oil which in turn eliminates many of the existing Subpart DC and Db conditions.

Attainment Status

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

Epcor Power Castleton is a co-generation power facility utilizing a combined cycle gas turbine with an HRSG and a duct burner. An auxiliary house boiler provides steam for the facility use. Electricity is sold to the New York Independent systems Operators (NYISO). The net power output for the plant is 67 megawatts nominal. Epcor Power Castleton has the ability to sell steam to any future industrial or commercial neighboring facility. The stationary gas turbine/electric generator set is a General Electric Frame Model PG6541B, capable of firing natural gas and #2 fuel oil, rated at approximately 489.2 mmBTU/hr @ 47 degree F while generating 44.8 MW of electricity. The gas turbine exhausts to a heat recovery boiler that produces high and intermediate pressure steam and deaeration (DA) steam. The steam turbine generator uses high pressure steam to generate up to 25 MW of electricity. Steam is also extracted and injected into the gas turbine to reduce emissions of nitrogen oxides.

Exhaust gases from the turbine are directed through a COEN Company, Inc. duct burner which is rated at 125 mmBTU/hr, maximum heat input and is capable of firing natural gas. Exhaust gases from the turbine and duct burner then pass through a heat recovery steam generator (HRSG) manufactured by DELTAK Corporation. Design capacity of the HRSG is approximately 140,000 pounds of steam per hour without the duct burners and approximately 220,000 lbs of steam hour when using the duct burners.



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The auxiliary boiler is a 2000 horsepower fire tube boiler which is capable of natural gas. The boiler was previously capable of firing #2 fuel oil, but was modified to eliminate this option. The maximum heat input capacity is approximately 95mm/BTU/hr and produces 69,000 lbs of steam per hour.

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 (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 M 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 - GE Frame 6 Gas Turbine/HRSG with supplemental firing of duct burner. The gas turbine firing natural gas; the duct burner firing natural gas.

Process: GTO is located at GROUND, Building MAIN - GE Frame 6 Gas Turbine/HRSG with supplemental firing of duct burner. The gas turbine firing distillate oil; the duct burner firing natural gas.

Process: NG2 is located at Building MAIN - Duct burner firing natural gas.

Process: NG3 is located at Building MAIN - Gas turbine firing natural gas.

Process: OIL is located at Building MAIN - Gas turbine firing distillate oil.

Emission unit 100AUX - (1) JOHNSTON 2000 HP FIRE TUBE BOILER RATED AT 95 MMBTU/HR. BOILER FIRES NATURAL GAS AND IS EQUIPPED WITH LOW-NOX BURNERS

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

00005



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Title V/Major Source Status

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

Epcor Castleton submitted a Title V permit application to operate a nominal 60 megawatts combined cycle power generation facility in Rensselaer County. The facility is classified as a major source on the basis of exceeding the major source emission thresholds for the contaminants NO_x, CO and SO₂. The facility has avoided the Federal New Source Review program by limiting emissions as proposed in the facility permit application. The facility is subject to the USEPA Acid Rain Program.

Program Applicability

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

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



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

RACT Reasonably Available Control Technology (6 NYCRR Parts 212.10, 226, 227-2, 228, 229, 230, 232, 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

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

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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
1-02-006-02	Boilers > 100 MBtu/Hr except Tangential 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 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 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 Range represents an emission range for a contaminant. Any PTE quantity that is displayed represents a facility-wide emission cap or limitation for that contaminant. If no PTE quantity is displayed, the PTE Range is provided to indicate the approximate magnitude of facility-wide emissions for the specified contaminant in terms of tons per year (tpy). 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 Name	PTE	Range
		lbs/yr	
007440-38-2	ARSENIC	> 0	but < 10 tpy
007440-43-9	CADMIUM	> 0	but < 10 tpy
000630-08-0	CARBON MONOXIDE	>= 100	tpy but < 250 tpy
007440-47-3	CHROMIUM	> 0	but < 10 tpy
000050-00-0	FORMALDEHYDE	> 0	but < 10 tpy
007439-92-1	LEAD	> 0	but < 10 tpy
007439-96-5	MANGANESE	> 0	but < 10 tpy
007439-97-6	MERCURY	> 0	but < 10 tpy
0NY059-28-0	NICKEL (NI 059)	> 0	but < 2.5 tpy
0NY210-00-0	OXIDES OF NITROGEN	>= 100	tpy but < 250



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0NY075-00-0	PARTICULATES	tpy
0NY075-00-5	PM-10	> 0 but < 2.5 tpy
007782-49-2	SELENIUM	> 0 but < 2.5 tpy
007446-09-5	SULFUR DIOXIDE	> 0 but < 10 tpy
		>= 100 tpy but < 250 tpy
0NY100-00-0	TOTAL HAP	> 0 but < 2.5 tpy
0NY998-00-0	VOC	>= 10 tpy but < 25 tpy

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

Item A: Emergency Defense - 6 NYCRR 201-1.5

An emergency constitutes an affirmative defense to an action brought 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 and/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;
- (3) During the period of the emergency the facility owner and/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 and/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 and/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 B: 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 C: Timely Application for the Renewal of Title V Permits -6 NYCRR Part 201-6.3(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 D: Certification by a Responsible Official - 6 NYCRR Part 201-6.3(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

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the document are true, accurate, and complete.

- Item E: Requirement to Comply With All Conditions - 6 NYCRR Part 201-6.5(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 F: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR Part 201-6.5(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 G: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR 201-6.5(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 H: Property Rights - 6 NYCRR 201-6.5(a)(6)**
This permit does not convey any property rights of any sort or any exclusive privilege.
- Item I: Severability - 6 NYCRR Part 201-6.5(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 J: Permit Shield - 6 NYCRR Part 201-6.5(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



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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 K: Reopening for Cause - 6 NYCRR Part 201-6.5(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 L: 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.

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Item M: 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: 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	111	Powers and Duties of the Department with respect to air pollution control
FACILITY	40CFR 60-A.11	77	General provisions - compliance with standards and maintenance requirements
FACILITY	40CFR 60-A.11 (d)	78	General provisions - compliance with standards and maintenance requirements
FACILITY	40CFR 60-A.12	79	General provisions - Circumvention
FACILITY	40CFR 60-A.13	80	General provisions - Monitoring requirements
FACILITY	40CFR 60-A.14	81	General provisions - Modification
FACILITY	40CFR 60-A.15	82	General provisions -

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FACILITY	40CFR 60-A.4	66	Reconstruction General provisions - Address
FACILITY	40CFR 60-A.7(b)	67	Notification and Recordkeeping
FACILITY	40CFR 60-A.7(d)	68	Notification and Recordkeeping
FACILITY	40CFR 60-A.7(f)	69	Notification and Recordkeeping
FACILITY	40CFR 60-A.8(a)	70	Performance Tests
FACILITY	40CFR 60-A.8(b)	71	Performance Tests
FACILITY	40CFR 60-A.8(c)	72	Performance Tests
FACILITY	40CFR 60-A.8(d)	73	Performance Tests
FACILITY	40CFR 60-A.8(e)	74	Performance Tests
FACILITY	40CFR 60-A.8(f)	75	Performance Tests
FACILITY	40CFR 60-A.9	76	General provisions - Availability of information
1-0GTDB/-/NG2	40CFR 60-Db.44b(h)	105	Standards for Nitrogen Oxides Provisions.
1-0GTDB/-/NG2	40CFR 60-Db.46b(f)	106	Compliance and Performance Test Methods and Procedures for Particulate Matter and and Nitrogen Oxides.
1-0GTDB	40CFR 60-Db.49b	102	Reporting and Recordkeeping Requirements.
1- 00AUX/00005/NG1/00AUX	40CFR 60-Dc.40c	92	Steam generators 10- 100 million Btu per hour
1-00AUX/-/NG1/00AUX	40CFR 60-Dc.48c(g)	91	Reporting and Recordkeeping Requirements.
1-0GTDB	40CFR 60-GG.334(b)	103	Monitoring of Operations: CEMS
1-0GTDB	40CFR 60-GG.334(h)(3)	104	Allowance not to monitor sulfur or nitrogen for natural gas
FACILITY	40CFR 68	20	Chemical accident prevention provisions
FACILITY	40CFR 82-F	21	Protection of Stratospheric Ozone - recycling and emissions reduction
FACILITY	6NYCRR 200.6	1	Acceptable ambient air quality.
FACILITY	6NYCRR 200.7	9	Maintenance of equipment.
FACILITY	6NYCRR 201-1.4	112	Unavoidable noncompliance and violations
FACILITY	6NYCRR 201-1.7	10	Recycling and Salvage
FACILITY	6NYCRR 201-1.8	11	Prohibition of reintroduction of collected contaminants to the air
FACILITY	6NYCRR 201-3.2(a)	12	Exempt Activities - Proof of eligibility

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FACILITY	6NYCRR 201-3.3 (a)	13	Trivial Activities - proof of eligibility
FACILITY	6NYCRR 201-6	22, 83, 84	Title V Permits and the Associated Permit Conditions
FACILITY	6NYCRR 201-6.5 (a) (4)	14	General conditions
FACILITY	6NYCRR 201-6.5 (a) (7)	2	General conditions
FACILITY	6NYCRR 201-6.5 (a) (8)	15	Fees
FACILITY	6NYCRR 201-6.5 (c)	3	General conditions
FACILITY	6NYCRR 201-6.5 (c) (2)	4	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.5 (c) (3) (ii)	5	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.5 (d) (5)	16	Compliance schedules
FACILITY	6NYCRR 201-6.5 (e)	23	Compliance Certification
FACILITY	6NYCRR 201-6.5 (f) (6)	17	Off Permit Changes
FACILITY	6NYCRR 201-7.1	85	Federally Enforceable Emissions Caps
FACILITY	6NYCRR 202-1.1	18	Required emissions tests.
1-0GTDB	6NYCRR 202-1.3	95	Acceptable procedures.
FACILITY	6NYCRR 202-2.1	6	Emission Statements - Applicability
FACILITY	6NYCRR 202-2.5	7	Emission Statements - record keeping requirements.
1-0GTDB	6NYCRR 204-2.1	96	Authorization and Responsibilities of the NOx Authorized Account
1-0GTDB	6NYCRR 204-4.1	97	Representative Compliance
1-0GTDB	6NYCRR 204-7.1	98	Certification Report Submission of NOx Allowance Transfers
1-0GTDB	6NYCRR 204-8.1	99	General Requirements
1-0GTDB	6NYCRR 204-8.3	100	Out of Control Periods
1-0GTDB	6NYCRR 204-8.5	101	Recordkeeping and Reporting
FACILITY	6NYCRR 211.2	113	General Prohibitions - visible emissions limited.
FACILITY	6NYCRR 211.3	19	General Prohibitions - visible emissions limited
FACILITY	6NYCRR 215	8	Open Fires
FACILITY	6NYCRR 225-1.4	43	Exceptions contingent upon fuel shortage.
FACILITY	6NYCRR 225-1.8	44	Reports, sampling and analysis.
FACILITY	6NYCRR 227-1.3 (a)	45	Smoke Emission Limitations.
1-00AUX/-/NG1	6NYCRR 227-2.4 (c) (2)	90	Emission limitations

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1-0GTDB	6NYCRR 237-1.4 (a)	116	for mid-sized boilers firing gas, distillate or residual fuels. Generators equal to or greater than 25 MWe
1-0GTDB	6NYCRR 237-1.6 (c)	117	Nitrogen oxides requirements
1-0GTDB	6NYCRR 237-1.6 (e)	118	Recordkeeping and reporting requirements
1-0GTDB	6NYCRR 237-1.6 (f)	119	Liability
1-0GTDB	6NYCRR 237-1.6 (g)	120	Effect on other authorities
1-0GTDB	6NYCRR 237-2	121	NOx Athorized account representative for NOx budget sources
1-0GTDB	6NYCRR 237-4.1	122	Compliance certification report.
1-0GTDB	6NYCRR 237-7.1	123	Submission of NOx allowance transfers
1-0GTDB	6NYCRR 237-8	124	MONITORING AND REPORTING
1-0GTDB	6NYCRR 238-1.6 (c)	125	Sulfur Dioxide requirements
1-0GTDB	6NYCRR 238-1.6 (e)	126	Recordkeeping and Reporting Requirements
1-0GTDB	6NYCRR 238-1.6 (f)	127	Liability
1-0GTDB	6NYCRR 238-1.6 (g)	128	Effect on Other Authorities
1-0GTDB	6NYCRR 238-2.1	129	Authorization/responsibilities of the authorized account representative
1-0GTDB	6NYCRR 238-4.1	130	Compliance certification report
1-0GTDB	6NYCRR 238-7.1	131	Submission of SO2 allowance transfers
1-0GTDB	6NYCRR 238-8	132	Monitoring and Reporting
FACILITY	6NYCRR 242-1.5	114, 115	CO2 Budget Trading Program - Standard requirements
FACILITY	6NYCRR 243-1.6 (a)	46	Permit Requirements - CAIR NOx Ozone Season Trading Program
FACILITY	6NYCRR 243-1.6 (b)	47	Monitoring Requirements - CAIR NOx Ozone Season Trading Program
FACILITY	6NYCRR 243-1.6 (c)	48	NOx Ozone Season Emission Requirements - CAIR NOx Ozone Season Trading Program
FACILITY	6NYCRR 243-1.6 (d)	49	Excess Emission

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FACILITY	6NYCRR 243-1.6 (e)	50	Requirements - CAIR NOx Ozone Season Trading Program Recordkeeping and reporting
FACILITY	6NYCRR 243-2.1	51	requirements - CAIR NOx Ozone Season Trading Program Authorization and responsibilities - CAIR Designated Representative
FACILITY	6NYCRR 243-2.4	52	Certificate of representation - CAIR Designated Representative
FACILITY	6NYCRR 243-8.1	53, 54	General Requirements - Monitoring and Reporting
FACILITY	6NYCRR 243-8.5 (d)	55	Quarterly reports re: recordkeeping and reporting - Monitoring and Reporting
FACILITY	6NYCRR 243-8.5 (e)	56	Compliance certification re: recordkeeping and reporting - Monitoring and Reporting
FACILITY	6NYCRR 244-1	57, 58	CAIR NOx Ozone Annual Trading Program General Provisions
FACILITY	6NYCRR 244-2	59	CAIR Designated Representative for CAIR NOx Sources
FACILITY	6NYCRR 244-8	60, 61	Monitoring and Reporting CAIR NOx Allowances
FACILITY	6NYCRR 245-1	62, 63	CAIR SO2 Trading Program General Provisions
FACILITY	6NYCRR 245-2	64	CAIR Designated Representative for CAIR SO2 Sources
FACILITY	6NYCRR 245-8	65	Monitoring and Reporting for CAIR SO2 Trading Program

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



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

6 NYCRR 201-1.4

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

6 NYCRR 201-1.7

Requires the recycle and salvage of collected air contaminants where practical

6 NYCRR 201-1.8

Prohibits the reintroduction of collected air contaminants to the outside air

6 NYCRR 201-3.2 (a)

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

6 NYCRR 201-3.3 (a)

The owner and/or operator of a trivial emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department 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 201-6.5 (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 201-6.5 (a) (7)

This is a mandatory condition that requires the owner or operator of a facility subject to Title V

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requirements to pay all applicable fees associated with the emissions from their facility.

6 NYCRR 201-6.5 (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 201-6.5 (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 201-6.5 (c) (2)

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

6 NYCRR 201-6.5 (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 201-6.5 (d) (5)

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 201-6.5 (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 201-6.5 (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.



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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 Part 215

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

40 CFR Part 68

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

40 CFR Part 82, Subpart F

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

Facility Specific Requirements

In addition to Title V, 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

This regulation specifies how monitoring shall be performed and which methods and appendices are used to determine if the monitoring is adequate and in compliance with the regulated standards.

40 CFR 60.14

This regulation defines the term modification and what is and is not considered to be a modification, for



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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 60.4

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 60.44b (h)

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

40 CFR 60.46b (f)

To determine compliance with the emissions limits for NO_x required by 60.44b(a) or 60.44b(1) for duct burners used in a combined cycle system either procedure described in this section may be used.

40 CFR 60.48c (g)

The owner or operator of each affected facility shall record and maintain records of the amount of each fuel combusted during each day.

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



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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.

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.

6 NYCRR 201-7.1

This regulation sets forth an emission cap that cannot be exceeded by the facility. In this permit that cap is

6 NYCRR 202-1.3

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. 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 204-2.1

This condition states the submission requirements for the NOx Budget Trading Program. The Program is designed to mitigate the interstate transport of ground level ozone and nitrogen oxides, a ground level ozone precursor.

6 NYCRR 204-4.1



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This condition covers the compliance certification report requirements for the NOx Budget Program.

6 NYCRR 204-7.1

This condition lists the requirements for transfer of allowances in the NOx Budget Program.

6 NYCRR 204-8.1

This condition lists the general requirements for the NOx Budget trading program. They include, but are not limited to monitoring requirements, certification, record keeping and reporting.

6 NYCRR 204-8.3

This condition states the requirements for data substitution during times when the monitoring systems do not meet applicable quality assurance requirements.

6 NYCRR 204-8.5

The NOx authorized account representative shall comply with all recordkeeping and reporting requirements in this section and with the requirements of section 204-2.1 of this part.

6 NYCRR 225-1.4

This regulation allows the Commissioner of the NYSDEC to issue an order granting a temporary variance from the sulfur-in-fuel limitations in 6 NYCRR Part 225-1 where it can be shown, to the commissioner's satisfaction, that there is an insufficient supply of conforming fuel, either of the proper type required for use in a particular air contamination source or generally throughout an area of the State.

6 NYCRR 225-1.8

This regulation requires an owner or operator of a facility which purchases and fires coal and/or oil to submit reports to the commissioner containing fuel analysis data, information on the quantity of the fuel received, burned, and results of any stack sampling, stack monitoring and any other procedures to ensure compliance with the provisions of 6 NYCRR Part 225-1.

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 227-2.4 (c) (2)

This regulation requires mid-size boilers (fuel combustion units with a maximum heat input capacity greater than 50 million Btu per hour and equal to or less than 100 million Btu per hour that produce steam or heats water or any other heat transfer medium) to meet the following emission limits (listed in pounds NOx per million Btu) by May 31, 1985:

for Gas fuel -	0.10
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for Distillate Oil - 0.12

for Residual Oil - 0.30

Compliance with these emission limits are determined with a 1-hour average in accordance with section 227-2.6(a)(4). If CEMs are used to determine compliance, the requirements of 227-2.6(b) apply, including the use of a 24-hour averaging period.

6 NYCRR 237-1.4 (a)

This condition specifies that any emission unit or facility with a unit; that at any time on or after January 1, 1999, serves a generator with a nameplate capacity equal to or greater than 25 MWe, and sells any amount of electricity, is a NOx budget unit and subject to the requirements of NYCRR 237



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6 NYCRR 237-1.6 (c)

This subdivision outlines the standard requirements of the Acid Deposition Reduction NOx Budget Trading Program for oxides of nitrogen.

6 NYCRR 237-1.6 (e)

This requires the owners and operators of the NOx budget source and each NOx budget unit at the source to keep pertinent documents at the site for a period of 5 years; and lists which documents are pertinent.

6 NYCRR 237-1.6 (f)

This describes the liability issues regarding the requirements of the ADR NOx Budget Trading Program

6 NYCRR 237-1.6 (g)

This item states that no provision of the ADR NOx Budget Trading Program, a NOx budget permit application, or a NOx budget permit, will exempt or exclude the owners and operators from compliance with any other provisions of applicable State and federal law and regulations.

6 NYCRR 237-4.1

This item specifies the requirements of the compliance certification report.

6 NYCRR 237-7.1

This item specifies what information and actions are necessary in order to record the transfer of NOx allowances.

6 NYCRR 238-1.6 (c)

This Item requires the owners and operators of each SO2 budget source and each SO2 budget unit to hold SO2 allowances available for compliance deductions under NYCRR 238-6.5; and how such allowances will be managed.

6 NYCRR 238-1.6 (e)

This item requires the owners and operators of the SO2 budget source to keep on site at the source pertinent documents for a period of 5 years from the date the document is created.

6 NYCRR 238-1.6 (f)

This subdivision outlines the liability of an affected source.

6 NYCRR 238-1.6 (g)

This subdivision outlines the liability of an affected source as subject to other requirements.

6 NYCRR 238-2.1

This section outlines the authorization and responsibilities of the SO2 authorized account representative.

6 NYCRR 238-4.1

This section lists all of the requirements for the submission of the compliance certification report.

6 NYCRR 238-7.1

This section outlines the requirements for the submission of SO2 allowance transfers.



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6 NYCRR 242-1.5

This rule is designed to stabilize and to reduce anthropogenic emissions of CO₂, a greenhouse gas, from CO₂ budget sources in an economically efficient manner,

6 NYCRR 243-1.6 (a)

This condition requires the facility to acknowledge that they are subject to this CAIR regulation and provide owner and contact information. It also requires them to update this information as it changes or provide supplemental information at the Department's request.

6 NYCRR 243-1.6 (b)

This condition obligates the owners and operators of the facility to comply with the monitoring and reporting requirements of the CAIR regulations.

6 NYCRR 243-1.6 (c)

This citation explains the general provisions of the Clean Air Interstate Rule (CAIR) NO_x Ozone Season Trading Program. This ozone season NO_x cap and trade program runs from May 1 through September 30 each year, starting in 2009. Each source shall hold a tonnage equivalent in CAIR NO_x Ozone Season allowances that is not less than the total tons of NO_x emissions for the ozone season.

6 NYCRR 243-1.6 (d)

This citation for the Clean Air Interstate Rule (CAIR) NO_x Ozone Season Trading Program explains some of the penalties that can be imposed on a CAIR NO_x Ozone Season source that does not surrender enough CAIR NO_x Ozone Season allowances to cover their NO_x Ozone Season emissions.

6 NYCRR 243-1.6 (e)

This citation for the Clean Air Interstate Rule (CAIR) NO_x Ozone Season Trading Program requires that all reports be submitted as required by this program, and that copies of all records and submissions made for this program be kept on site for at least five years.

6 NYCRR 243-2.1

This citation of the Clean Air Interstate Rule (CAIR) NO_x Ozone Season Trading Program explains that an CAIR NO_x Ozone Season designated representative must be selected to submit, sign and certify each submission on behalf of the source for the this program.

6 NYCRR 243-2.4

This condition describes the required elements of the "Certificate of Representation" for the CAIR program and the certifying language required with submissions to the Department.

6 NYCRR 243-8.1

This citation of the Clean Air Interstate Rule (CAIR) NO_x Ozone Season Trading Program explains that CAIR NO_x Ozone Season Trading Program sources must install, certify and operate monitoring systems that meet the monitoring, recordkeeping, and reporting requirements in Subpart 6 NYCRR 243-8 and in Subpart H of 40 CFR Part 75.

6 NYCRR 243-8.5 (d)

This citation of the Clean Air Interstate Rule (CAIR) NO_x Ozone Season Trading Program explains the what requirements the quarterly reports must meet.

6 NYCRR 243-8.5 (e)

This citation of the Clean Air Interstate Rule (CAIR) NO_x Ozone Season Trading Program explains the compliance certification requirements the source must follow for each quarterly report.



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6 NYCRR Subpart 237-2

This condition requires the permittee to select and authorize one person to manage, and represent the owners of any NOx budget unit; and specifies the responsibilities of this NOx authorized account representative

6 NYCRR Subpart 237-8

This item requires the owners and operators of a NOx budget unit to comply with the monitoring and reporting requirements of NYCRR 237-8 and Subpart H of 40 CFR part 75; and allows NOx budget units which are also NOx budget units under NYCRR Part 204 to be summarily referenced in order to demonstrate compliance with the requirements of this item.

6 NYCRR Subpart 238-8

This condition requires the owner or operator of the facility to comply with the reporting and record keeping requirements of 40 CFR Part 75.

6 NYCRR Subpart 244-1

This subpart explains the general provisions of the Clean Air Interstate Rule (CAIR) Nitrogen Oxide (NOx) Annual Trading Program. The control period for this annual NOx cap and trade program runs from January 1 to December 31 each year, starting in 2009. Each source shall hold a tonnage equivalent in CAIR NOx allowances that is not less than the total tons of NOx emissions for the control period.

6 NYCRR Subpart 244-2

Each Clean Air Interstate Rule (CAIR) NOx source shall have one CAIR designated representative and may have one alternate representative. Each submission for the CAIR NOx Annual Trading Program shall be submitted, signed, and certified by the CAIR designated representative or the alternate representative.

6 NYCRR Subpart 244-8

The owners, operators, and Clean Air Interstate Rule (CAIR) designated representative of a CAIR NOx unit shall comply with the monitoring, recordkeeping, and reporting requirements as provided in Subpart 6 NYCRR Part 244-8 and in 40 CFR Part 75, Subparts F and G. A certified NOx emission monitoring system must be used to measure NOx emissions. NOx emission reports must be certified and submitted quarterly.

6 NYCRR Subpart 245-1

This subpart explains the general provisions of the Clean Air Interstate Rule (CAIR) sulfur dioxide (SO2) Trading Program. The control period for this annual SO2 cap and trade program runs from January 1 to December 31, starting in the year 2010. Each source shall hold a tonnage equivalent in CAIR SO2 allowances that is not less than the total tons of SO2 emissions for the control period.

6 NYCRR Subpart 245-2

Each Clean Air Interstate Rule (CAIR) SO2 source shall have one CAIR designated representative and may have one alternate representative. Each submission for the CAIR SO2 Trading Program shall be submitted, signed, and certified by the CAIR designated representative or the alternate representative.

6 NYCRR Subpart 245-8

The owners, operators, and Clean Air Interstate Rule (CAIR) designated representative of a CAIR SO2 unit shall comply with the monitoring, recordkeeping, and reporting requirements as provided in Subpart 6 NYCRR Part 245-8 and in 40 CFR Part 75, Subparts F and G. A certified SO2 emission



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monitoring system must be used to measure SO2 emissions. SO2 emission reports must be certified and submitted quarterly..

Compliance Certification

Summary of monitoring activities at CASTLETON ENERGY CENTER:

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

1-0GTDB/-/NG2	106	record keeping/maintenance procedures
1-00AUX/-/NG1/00AUX	91	record keeping/maintenance procedures
1-0GTDB	104	record keeping/maintenance procedures
FACILITY	5	record keeping/maintenance procedures
FACILITY	23	record keeping/maintenance procedures
FACILITY	24	intermittent emission testing
FACILITY	25	work practice involving specific operations
FACILITY	26	intermittent emission testing
FACILITY	27	work practice involving specific operations
FACILITY	28	intermittent emission testing
FACILITY	29	intermittent emission testing
FACILITY	30	work practice involving specific operations
FACILITY	31	intermittent emission testing
FACILITY	32	intermittent emission testing
FACILITY	33	intermittent emission testing
FACILITY	34	intermittent emission testing
FACILITY	35	intermittent emission testing
FACILITY	36	intermittent emission testing
FACILITY	37	intermittent emission testing
FACILITY	38	intermittent emission testing
FACILITY	39	intermittent emission testing
FACILITY	40	intermittent emission testing
FACILITY	41	intermittent emission testing
FACILITY	42	intermittent emission testing
1-00AUX/-/NG1	86	record keeping/maintenance procedures
1-00AUX/-/NG1	87	intermittent emission testing
1-00AUX/-/NG1	88	intermittent emission testing
1-00AUX/-/NG1	89	intermittent emission testing
1-0GTDB	93	intermittent emission testing
1-0GTDB	94	intermittent emission testing
1-0GTDB/-/NG3	107	continuous emission monitoring (cem)
1-0GTDB/-/NG3	108	continuous emission monitoring (cem)
1-0GTDB/-/OIL	109	continuous emission monitoring (cem)
1-0GTDB/-/OIL	110	continuous emission monitoring (cem)
1-0GTDB	95	record keeping/maintenance procedures
FACILITY	6	record keeping/maintenance procedures
1-0GTDB	101	record keeping/maintenance procedures
FACILITY	44	record keeping/maintenance procedures
FACILITY	45	monitoring of process or control device parameters as surrogate
1-00AUX/-/NG1	90	intermittent emission testing
1-0GTDB	117	record keeping/maintenance procedures
1-0GTDB	122	record keeping/maintenance procedures
1-0GTDB	124	record keeping/maintenance procedures
1-0GTDB	125	record keeping/maintenance procedures
1-0GTDB	130	record keeping/maintenance procedures
FACILITY	115	record keeping/maintenance procedures
FACILITY	60	record keeping/maintenance procedures
FACILITY	61	record keeping/maintenance procedures



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 4-3844-00008/00006

Renewal Number: 1

12/17/2015

FACILITY 65 record keeping/maintenance procedures

Basis for Monitoring

A Title V Air Permit application renewal is submitted by EPCOR Power Castleton to continue operation of a nominal 67 megawatt combined cycle power generation facility located in Castleton, Rensselaer. The facility is classified as a major source as defined by 6 NYCRR Part 201. This facility is subject to 6 NYCRR Parts 204 (NOX Budget), 237 (Acid Deposition NOx Trading), 238 Sulfur Dioxide Trading) and, 40 CFR Parts 60 (NSPS) and 75 (Acid Rain).

Emission monitoring is required to demonstrate compliance with the requirements of each of the aforementioned regulations. Monitoring may be of the following types; continuous monitoring, usually involving a continuous emission monitor, intermittent monitoring usually involving stack testing, work practice monitoring or record keeping.