



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 4-3844-00008/00006

Renewal Number: 2

03/29/2016

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

Application for renewal of Title V Permit (including Acid Rain requirements) for an existing power generating facility.

Attainment Status

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



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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
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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
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* 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:

Electric and steam cogeneration from a combined-cycle turbine and heat recovery steam generator with duct firing.

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 -



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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.

Process: SDN is located at Building MAIN - Shutdown firing on natural gas.

Process: SDO is located at Building MAIN - Shutdown firing on ultra-low sulfur fuel oil.

Process: SUN is located at Building MAIN - Start-up firing on natural gas.

Process: SUO is located at Building MAIN - Start-up firing on ultra-low sulfur fuel oil.

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

Process: NG1 Auxiliary boiler equipped with a low NOx burner, firing natural gas. This boiler has been de-rated from 95 MMBtu/hr to 24.4 MMBtu/hr.

Title V/Major Source Status

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

The Castleton Energy Center is a Title V facility,

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



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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 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



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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 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

1-02-006-02

ELECTRIC UTILITY BOILER - NATURAL GAS 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

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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 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
000124-38-9	CARBON DIOXIDE		>= 100,000 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 tpy
0NY075-00-0	PARTICULATES		> 0 but < 2.5 tpy
0NY075-00-5	PM-10		> 0 but < 2.5 tpy
007782-49-2	SELENIUM		> 0 but < 10 tpy
007446-09-5	SULFUR DIOXIDE		>= 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, 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:



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

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

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

Item 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 201-6.2(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 D: 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 E: 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 F: 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



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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 201-6.4(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 H: 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 I: 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 J: Permit Shield - 6 NYCRR Part 201-6.4(g)

All permittees granted a Title V facility permit shall be covered under the protection of a permit shield, except as provided under 6 NYCRR Subpart 201-6. Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and are specifically identified in the permit, or the Department, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the major stationary source, and the permit includes the determination or a concise summary thereof. Nothing herein shall preclude the Department from revising or revoking the permit pursuant to 6 NYCRR Part 621 or from exercising its summary abatement authority. Nothing in this permit shall alter or affect the following:

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

Item K: 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



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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.

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.

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**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	88	Powers and Duties of the Department with respect to air
FACILITY	40CFR 60-A.11	65	pollution control General provisions - compliance with standards and maintenance requirements
FACILITY	40CFR 60-A.11 (d)	66	General provisions - compliance with standards and maintenance requirements
FACILITY	40CFR 60-A.12	67	General provisions - Circumvention
FACILITY	40CFR 60-A.13 (d)	68	General provisions - Monitoring requirements
FACILITY	40CFR 60-A.14	69	General provisions - Modification
FACILITY	40CFR 60-A.15	70	General provisions - Reconstruction
FACILITY	40CFR 60-A.4	54	General provisions - Address
FACILITY	40CFR 60-A.7 (b)	55	Notification and Recordkeeping
FACILITY	40CFR 60-A.7 (d)	56	Notification and Recordkeeping
FACILITY	40CFR 60-A.7 (f)	57	Notification and Recordkeeping
FACILITY	40CFR 60-A.8 (a)	58	Performance Tests
FACILITY	40CFR 60-A.8 (b)	59	Performance Tests
FACILITY	40CFR 60-A.8 (c)	60	Performance Tests
FACILITY	40CFR 60-A.8 (d)	61	Performance Tests
FACILITY	40CFR 60-A.8 (e)	62	Performance Tests



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FACILITY	40CFR 60-A.8 (f)	63	Performance Tests
FACILITY	40CFR 60-A.9	64	General provisions -
			Availability of
1-0GTDB	40CFR 60-Db.42b (j)	83	information
			Exemption from
FACILITY	40CFR 60-Db.44b (h)	71	Standards for Sulfur
			Dioxide.
1-0GTDB	40CFR 60-Db.49b	84	Standards for
			Nitrogen Oxides
FACILITY	40CFR 60-Dc.40c	72	Provisions.
			Reporting and
FACILITY	40CFR 60-GG.334 (b)	73	Recordkeeping
1-0GTDB	40CFR 60-GG.334 (h) (3)	85	Requirements.
			Steam generators 10-
			100 million Btu per
			hour
			Monitoring of
			Operations: CEMS
			Allowance not to
			monitor sulfur or
			nitrogen for natural
			gas
FACILITY	40CFR 60-GG.334 (j)	74	Reporting
FACILITY	40CFR 68	19	Requirements
FACILITY	40CFR 72	75	Chemical accident
FACILITY	40CFR 82-F	20	prevention provisions
			Permits regulation
			Protection of
			Stratospheric Ozone -
			recycling and
			emissions reduction
1-0GTDB	40CFR 97-A.406	86	Transport Rule (TR)
			NOx Annual Trading
			Program Standard
			Requirements
FACILITY	6NYCRR 200.6	1	Acceptable ambient
FACILITY	6NYCRR 200.7	10	air quality.
FACILITY	6NYCRR 201-1.4	89	Maintenance of
			equipment.
			Unavoidable
			noncompliance and
			violations
FACILITY	6NYCRR 201-1.7	11	Recycling and Salvage
FACILITY	6NYCRR 201-1.8	12	Prohibition of
			reintroduction of
			collected
			contaminants to the
			air
FACILITY	6NYCRR 201-3.2 (a)	13	Exempt Activities -
FACILITY	6NYCRR 201-3.3 (a)	14	Proof of eligibility
FACILITY	6NYCRR 201-6	21, 76, 77	Trivial Activities -
			proof of eligibility
			Title V Permits and
			the Associated Permit
			Conditions
1-0GTDB	6NYCRR 201-6.4	80, 81, 82	Standard Permit
			Requirements
FACILITY	6NYCRR 201-6.4 (a)	22, 23, 24, 25, 26,	General Conditions
		27, 28, 29, 30, 31,	
		32, 33, 34, 35, 36,	
		37	
FACILITY	6NYCRR 201-6.4 (a) (4)	15	General Conditions -
			Requirement to
			Provide Information



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FACILITY	6NYCRR 201-6.4 (a) (7)	2	General Conditions - Fees
FACILITY	6NYCRR 201-6.4 (a) (8)	16	General Conditions - Right to Inspect
FACILITY	6NYCRR 201-6.4 (c)	3	Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.4 (c) (2)	4	Records of Monitoring, Sampling and Measurement
FACILITY	6NYCRR 201-6.4 (c) (3) (ii)	5	Reporting Requirements - Deviations and Noncompliance
FACILITY	6NYCRR 201-6.4 (d) (4)	38	Compliance Schedules - Progress Reports
FACILITY	6NYCRR 201-6.4 (e)	6	Compliance Certification
FACILITY	6NYCRR 201-6.4 (f) (6)	17	Off Permit Changes
FACILITY	6NYCRR 201-6.5 (a)	39, 40, 41, 42, 43, 44, 45, 46	State Enforceable Requirements
FACILITY	6NYCRR 202-1.1	18	Required emissions tests.
FACILITY	6NYCRR 202-1.3	47	Acceptable procedures.
FACILITY	6NYCRR 202-1.3 (a)	48	Acceptable procedures - reference methods
FACILITY	6NYCRR 202-2.1	7	Emission Statements - Applicability
FACILITY	6NYCRR 202-2.5	8	Emission Statements - record keeping requirements.
FACILITY	6NYCRR 211.1	49	General Prohibitions - air pollution prohibited
FACILITY	6NYCRR 211.2	90	General Prohibitions - visible emissions limited.
FACILITY	6NYCRR 215.2	9	Open Fires - Prohibitions
FACILITY	6NYCRR 225-1.2 (f)	50	Sulfur-in-Fuel Limitations
FACILITY	6NYCRR 225-1.2 (h)	51	Sulfur-in-Fuel Limitations
FACILITY	6NYCRR 225-1.5 (c)	52	Monitoring Requirements
1-00AUX/00005	6NYCRR 227-1.3 (a)	79	Smoke Emission Limitations.
1-0GTDB/00001	6NYCRR 227-1.3 (a)	87	Smoke Emission Limitations.
1-00AUX	6NYCRR 227-2.4 (d)	78	Small boilers, small combustion turbines, and small stationary internal combustion engines.
FACILITY	6NYCRR 227-2.5 (c)	53	Alternative RACT option.
FACILITY	6NYCRR 242-1.5	91	CO2 Budget Trading Program - Standard requirements
FACILITY	6NYCRR 242-4	92	CO2 Budget Trading Program - Compliance certification
FACILITY	6NYCRR 242-8	93	CO2 Budget Trading

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FACILITY

6NYCRR 242-8.5

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Program - Monitoring
and reporting
CO2 Budget Trading
Program - Reporting
and recordkeeping

Applicability Discussion:

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

ECL 19-0301

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

6 NYCRR 200.6

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

6 NYCRR 200.7

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

6 NYCRR 201-1.4

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

6 NYCRR 201-1.7

Requires the recycle and salvage of collected air contaminants where practical

6 NYCRR 201-1.8

Prohibits the reintroduction of collected air contaminants to the outside air

6 NYCRR 201-3.2 (a)

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

6 NYCRR 201-3.3 (a)

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



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

6 NYCRR 201-6.4 (a) (4)

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

6 NYCRR 201-6.4 (a) (7)

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

6 NYCRR 201-6.4 (a) (8)

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

6 NYCRR 201-6.4 (c)

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

6 NYCRR 201-6.4 (c) (2)

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

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

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

6 NYCRR 201-6.4 (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 201-6.4 (e)



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

6 NYCRR 201-6.4 (f) (6)

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

6 NYCRR 202-1.1

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

6 NYCRR 202-2.1

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

6 NYCRR 202-2.5

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

6 NYCRR 211.2

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

6 NYCRR 215.2

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

40 CFR Part 68

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

40 CFR Part 82, Subpart F

Subpart F requires the reduction of emissions of class I and class II refrigerants to the lowest achievable level during the service, maintenance, repair, and disposal of appliances in accordance with section 608 of 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



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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 NOx 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.

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).



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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.

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)



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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 97.406

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

40 CFR 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



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6 NYCRR 201-6.4 (a)

6 NYCRR 201-6.5 (a)

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 be 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 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 (f)

Sulfur-in-fuel limitations for the purchase of #2 heating oil on or after July 1, 2012.

6 NYCRR 225-1.2 (h)

Sulfur-in-fuel limitation for the firing of distillate oil on or after July 1, 2016.

6 NYCRR 225-1.5 (c)



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

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 (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 Subpart 242-4



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This citation requires that an Annual Compliance Certification report be submitted by March 1st, on an annual basis, certifying compliance with the CO2 Budget Trading Program.

6 NYCRR Subpart 242-8

Citation 6NYCRR Part 242-8.5 requires that the record keeping and reporting requirements of 40 CFR Part 75.73 and 6NYCRR Part 242-2.1(e) be followed, that a CO2 monitoring plan(s) be submitted, that the CO2 emission monitor(s) be certified, and that CO2 emissions be reported quarterly in an electronic format.

Citation 6NYCRR Part 242-8.5 requires that the record keeping and reporting requirements of 40 CFR Part 75.73 and 6NYCRR Part 242-2.1(e) be followed, that a CO2 monitoring plan(s) be submitted, that the CO2 emission monitor(s) be certified, and that CO2 emissions be reported quarterly in an electronic format.

Compliance Certification

Summary of monitoring activities at CASTLETON ENERGY CENTER:

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

1-0GTDB	85	record keeping/maintenance procedures
FACILITY	74	record keeping/maintenance procedures
1-0GTDB	86	record keeping/maintenance procedures
1-0GTDB	80	record keeping/maintenance procedures
1-0GTDB	81	intermittent emission testing
1-0GTDB	82	intermittent emission testing
FACILITY	22	monitoring of process or control device parameters as surrogate
FACILITY	23	monitoring of process or control device parameters as surrogate
FACILITY	24	continuous emission monitoring (cem)
FACILITY	25	continuous emission monitoring (cem)
FACILITY	26	continuous emission monitoring (cem)
FACILITY	27	continuous emission monitoring (cem)
FACILITY	28	intermittent emission testing
FACILITY	29	intermittent emission testing
FACILITY	30	continuous emission monitoring (cem)
FACILITY	31	intermittent emission testing
FACILITY	32	intermittent emission testing
FACILITY	33	intermittent emission testing
FACILITY	34	intermittent emission testing
FACILITY	35	continuous emission monitoring (cem)
FACILITY	36	intermittent emission testing
FACILITY	37	intermittent emission testing
FACILITY	5	record keeping/maintenance procedures
FACILITY	6	record keeping/maintenance procedures

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FACILITY	39	continuous emission monitoring (cem)
FACILITY	40	continuous emission monitoring (cem)
FACILITY	41	continuous emission monitoring (cem)
FACILITY	42	continuous emission monitoring (cem)
FACILITY	43	continuous emission monitoring (cem)
FACILITY	44	continuous emission monitoring (cem)
FACILITY	45	continuous emission monitoring (cem)
FACILITY	46	continuous emission monitoring (cem)
FACILITY	7	record keeping/maintenance procedures
FACILITY	50	work practice involving specific operations
FACILITY	51	work practice involving specific operations
FACILITY	52	record keeping/maintenance procedures
1-00AUX/00005	79	monitoring of process or control device parameters as surrogate
1-0GTDB/00001	87	monitoring of process or control device parameters as surrogate
1-00AUX	78	record keeping/maintenance procedures
FACILITY	53	continuous emission monitoring (cem)
FACILITY	91	record keeping/maintenance procedures
FACILITY	92	record keeping/maintenance procedures
FACILITY	93	record keeping/maintenance procedures
FACILITY	94	record keeping/maintenance procedures

Basis for Monitoring

Condition 22

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE Monitoring Description: Total fuel oil firing for the processes listed herein is limited to 1560 hours per year.

Condition 23

Total fuel oil use at the facility, is limited to 6,653,000 gal/yr and shall be calculated as per App D of 40 CFR Part 75.

Condition 24

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM) Monitoring Description: Compliance with the duct burner, carbon monoxide emission limit stated herein shall, when firing gas be demonstrated using emission data generated from the annual, RATA stack testing program. A method of difference using test data from the duct burners firing in combination with the combustion turbine and, test data from the combustion turbine firing alone, is an acceptable procedure for demonstration purposes. Parameter Monitored: CARBON MONOXIDE Upper Permit Limit: 0.08 pounds per million Btus.

Condition 25

Monitoring Description: Compliance with the oxides of nitrogen emission limit stated herein shall, when firing fuel oil be demonstrated using emission data generated from the annual, RATA stack testing program. Manufacturer Name/Model Number: Teledyne T802 Parameter Monitored:



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OXIDES OF NITROGEN Upper Permit Limit: 42 parts per million by volume (dry, corrected to 15% O₂).

Condition 26

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM) Monitoring Description: Compliance with the duct burner, oxides of nitrogen emission limit stated herein shall, when firing gas be demonstrated using emission data generated from the annual, RATA stack testing program. A method of difference using test data from the duct burners firing in combination with the combustion turbine and, test data from the combustion turbine firing alone, is an acceptable procedure for demonstration purposes. Manufacturer Name/Model Number: Teledyne T802 Parameter Monitored: OXIDES OF NITROGEN Upper Permit Limit: 15.5 pounds per hour.

Condition 27

Monitoring Description: Compliance with the duct burner, oxides of nitrogen emission limit stated herein shall, when firing gas be demonstrated using emission data generated from the annual, RATA stack testing program. A method of difference using test data from the duct burners firing in combination with the combustion turbine and, test data from the combustion turbine firing alone, is an acceptable procedure for demonstration purposes. Manufacturer Name/Model Number: Teledyne T802 Parameter Monitored: OXIDES OF NITROGEN Upper Permit Limit: 0.10 pounds per million Btus.

Condition 28

Monitoring Type: INTERMITTENT EMISSION TESTING Monitoring Description: The facility shall limit its PM emissions from this emission unit to 20.1 lbs/hr while firing fuel oil in the combustion turbine alone or with the duct burner firing natural gas. Emissions shall be verified through periodic stack testing. Limit is based on the average of three one hour tests. Testing shall be conducted once every five years as part of the Title V operating permit renewal. Parameter Monitored: PM-10 Upper Permit Limit: 20.1 pounds per hour.

Condition 29

Monitoring Description: The facility shall limit its VOC emissions from the duct burner to 12.4 lbs/hr. Compliance with the volatile organic compound limit when firing natural gas in the duct burner shall be demonstrated by stack testing, once per permit term. A method of difference is an acceptable procedure for demonstration with this limit. Parameter Monitored: VOC Upper Permit Limit: 12.4 pounds per hour.

Condition 30



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Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM) Monitoring Description: Compliance with the oxides of nitrogen emission limit stated herein shall, when firing gas in the turbine, shall be demonstrated using emission data generated from the annual, RATA stack testing program. Manufacturer Name/Model Number: Teledyne T802 Parameter Monitored: OXIDES OF NITROGEN Upper Permit Limit: 25 parts per million by volume (dry, corrected to 15% O₂).

Condition 31

Monitoring Type: INTERMITTENT EMISSION TESTING Monitoring Description: The facility shall limit its PM emissions from this emission unit to 0.01 lb/mmBtu while firing natural gas in the combustion turbine and duct burner. Emissions shall be verified through periodic stack testing. Limit is based on the average of three one hour tests. Testing shall be conducted once every five years as part of the Title V operating permit renewal. Parameter Monitored: PM-10 Upper Permit Limit: 0.01 pounds per million Btus.

Condition 32

Monitoring Type: INTERMITTENT EMISSION TESTING Monitoring Description: The facility shall limit its PM emissions from this emission unit to 0.10 lb/mmBtu while firing fuel oil in the combustion turbine alone or with the duct burner firing natural gas. Emissions shall be verified through periodic stack testing. Limit is based on the average of three one hour tests. Testing shall be conducted once every five years as part of the Title V operating permit renewal. Parameter Monitored: PM-10 Upper Permit Limit: 0.10 pounds per million Btus.

Condition 33

The facility shall limit its VOC emissions from the duct burner to 0.08 lb/mmBtu. Compliance with the volatile organic compound limit when firing natural gas in the duct burner shall be demonstrated by stack testing, once per permit term. A method of difference is an acceptable procedure for demonstration with this limit. Parameter Monitored: VOC Upper Permit Limit: 0.08 pounds per million Btus.

Condition 34

Monitoring Type: INTERMITTENT EMISSION TESTING Monitoring Description: The facility shall limit its VOC emissions from the turbine, to 0.01 lb/mmBtu. Emissions shall be verified through periodic stack testing. Limit is based on the average of three 1-hr tests. Testing shall be conducted once every five years as part of the title v operating permit program. Parameter Monitored: VOC Upper Permit Limit: 0.01 pounds per million Btus.



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Condition 35

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM) Monitoring Description: Compliance with the duct burner, carbon monoxide limit stated herein shall, when firing gas be demonstrated using emission data generated from the annual, RATA stack testing program. A method of difference using test data from the duct burners firing in combination with the combustion turbine and, test data from the combustion turbine firing alone, is an acceptable procedure for demonstration purposes. Manufacturer Name/Model Number: Teledyne T300 Parameter Monitored: CARBON MONOXIDE Upper Permit Limit: 12.4 pounds per hour.

Condition 36

Monitoring Type: INTERMITTENT EMISSION TESTING Monitoring Description: The facility shall limit its PM emissions from this emission unit to 4.1 lbs/hr while firing natural gas in the combustion turbine and duct burner. Emissions shall be verified through periodic stack testing. Limit is based on the average of three one hour tests. Testing shall be conducted once every five years as part of the Title V operating permit renewal. Parameter Monitored: PM-10 Upper Permit Limit: 4.1 pounds per hour.

Condition 37

Monitoring Type: INTERMITTENT EMISSION TESTING Monitoring Description: The facility shall limit VOC emissions from the gas turbine to 3.5 lbs/hr. Emissions shall be verified through periodic stack testing. Limit is based on the average of three 1-hr tests. Testing shall be conducted once every five years as part of the Title V operating permit program. Parameter Monitored: VOC Upper Permit Limit: 3.5 pounds per hour.

Condition 39

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM) Monitoring Description: The facility shall limit its CO emissions from its combustion turbine generator while firing ultra low sulfur fuel under shutdown conditions to 30 lbs per shutdown event (not to exceed 1 hr/event). Emissions shall be monitored and recorded on a continuous basis with a CEM system. Manufacturer Name/Model Number: TELEDYNE/T300M Upper Permit Limit: 30 pounds.

Condition 40

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM) Monitoring Description: The facility shall limit its CO emissions from its combustion turbine generator while firing pipeline



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quality natural gas under start-up conditions to 60 lbs per start-up event (not to exceed 3 hr/event).
Emissions shall be monitored and recorded on a continuous basis with a CEM system.
Manufacturer Name/Model Number: TELEDYNE/T300M Upper Permit Limit: 60 pounds.

Condition 41

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM) Monitoring Description:
The facility shall limit its NOx emissions from its combustion turbine generator while firing ultra low sulfur fuel under shutdown conditions to 75 lbs per shutdown event (not to exceed 1 hr/event).
Emissions shall be monitored and recorded on a continuous basis with a CEM system.
Manufacturer Name/Model Number: TELEDYNE/T200M Upper Permit Limit: 75 pounds.

Condition 42

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM) Monitoring Description:
The facility shall limit its CO emissions from its combustion turbine generator while firing ultra low sulfur fuel oil under start-up conditions to 95 lbs per start-up event (not to exceed 3 hr/event).
Emissions shall be monitored and recorded on a continuous basis with a CEM system.
Manufacturer Name/Model Number: TELEDYNE/T300M Upper Permit Limit: 95 pounds.

Condition 43

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM) Monitoring Description:
The facility shall limit its NOX emissions from its combustion turbine generator while firing ultra low sulfur fuel under start-up conditions to 450 lbs per start-up event (not to exceed 3 hr/event).
Emissions shall be monitored and recorded on a continuous basis with a CEM system.
Manufacturer Name/Model Number: TELEDYNE/T200M Upper Permit Limit: 450 pounds.

Condition 44

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM) Monitoring Description:
The facility shall limit its NOx emissions from its combustion turbine generator while firing natural gas under shutdown conditions to 40 lbs per shutdown event (not to exceed 1 hr/event).
Emissions shall be monitored and recorded on a continuous basis with a CEM system.
Manufacturer Name/Model Number: TELEDYNE/T200M Upper Permit Limit: 40 pounds.

Condition 45

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM) Monitoring Description:
The facility shall limit its NOx emissions from its combustion turbine generator while firing natural gas under start-up conditions to 250 lbs per start-up event (not to exceed 3 hr/event).



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Emissions shall be monitored and recorded on a continuous basis with a CEM system.

Manufacturer Name/Model Number: TELEDYNE/T200M Upper Permit Limit: 250 pounds.

Condition 46

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM) Monitoring Description:

The facility shall limit its CO emissions from its combustion turbine generator while firing pipeline quality natural gas under shutdown conditions to 30 lbs per shutdown event (not to exceed 1 hr/event). Emissions shall be monitored and recorded on a continuous basis with a CEM system.

Manufacturer Name/Model Number: TELEDYNE/T300M Upper Permit Limit: 30 pounds.

Condition 50

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS Monitoring

Description: Owners and/or operators of commercial, industrial, or residential emission sources that fire number two heating oil on or after July 1, 2012 are limited to the purchase of number two heating oil with 0.0015 percent sulfur by weight or less. Compliance with this limit will be based on vendor certifications. Data collected pursuant to this Subpart must be tabulated and summarized in a form acceptable to the Department, and must be retained for at least five years.

The owner of a Title V facility must furnish to the Department such records and summaries, on a semiannual calendar basis, within 30 days after the end of the semiannual period. All other facility owners or distributors must submit these records and summaries upon request of the Department.

Work Practice Type: PARAMETER OF PROCESS MATERIAL Process Material: NUMBER 2 HEATING OIL Parameter Monitored: SULFUR CONTENT Upper Permit Limit: 0.0015 percent by weight.

Condition 51

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS Monitoring

Description: Owners and/or operators of a stationary combustion installations that fire distillate oil are limited to the firing of distillate oil with 0.0015 percent sulfur by weight or less on or after July 1, 2016. Compliance with this limit will be based on vendor certifications. Data collected pursuant to this Subpart must be tabulated and summarized in a form acceptable to the Department, and must be retained for at least five years. The owner of a Title V facility must furnish to the

Department such records and summaries, on a semiannual calendar basis, within 30 days after the end of the semiannual period. All other facility owners or distributors must submit these records and summaries upon request of the Department. Work Practice Type: PARAMETER OF PROCESS MATERIAL Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL Parameter Monitored: SULFUR CONTENT Upper Permit Limit: 0.0015 percent by weight.

Condition 52



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Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES Monitoring
Description: Measurements must be made daily of the rate of each fuel fired. The gross heat content and ash content of each fuel fired must be determined at least once each week. In the case of stationary combustion installations producing electricity for sale, the average electrical output and the hourly generation rate must also be measured. Data collected pursuant to this Subpart must be tabulated and summarized in a form acceptable to the Department, and must be retained for at least five years. The owner of a Title V facility must furnish to the Department such records and summaries, on a semiannual calendar basis, within 30 days after the end of the semiannual period. All other facility owners or distributors must submit these records and summaries upon request of the Department.

Condition 53

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM) Monitoring Description: Castleton Energy will limit annual NO_x 157.49 tons/yr from the combustion turbine and duct burner. This limit will satisfy the 6 NYCRR Part 277 Reasonably Available Control Technology (RACT) requirements. Manufacturer Name/Model Number: TELEDYNE/T200M Upper Permit Limit: 157 tons per year.

Condition 74

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES Monitoring
Description: For each affected unit required to continuously monitor parameters or emissions, or to periodically determine the fuel sulfur content or fuel nitrogen content under this subpart, the owner or operator shall submit reports of excess emissions and monitor downtime, in accordance with §60.7(c). Excess emissions shall be reported for all periods of unit operation, including start-up, shutdown and malfunction. For the purpose of reports required under §60.7(c), periods of excess emissions and monitor downtime that shall be reported are defined in 40 CFR 60 Subpart GG-334(j)(1) - (5).

Condition 78

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES Monitoring
Description: The owner or operator of a small boiler, small combustion turbine, or small internal combustion engine must perform an annual tune-up of their equipment. This tune-up should be performed in accordance with the requirements of the DAR-5 guidance document. Records of each tune-up must be kept on-site for a minimum of five years.

Condition 79



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Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE Monitoring Description: No person shall operate a stationary combustion installation which exhibits greater than 20 percent opacity (six minute average), except for one-six-minute period per hour of not more than 27 percent opacity. The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation. The permittee will conduct observations of visible emissions from the emission unit, process, etc. to which this condition applies at the monitoring frequency stated below while the process is in operation. The permittee will investigate, in a timely manner, any instance where there is cause to believe that visible emissions have the potential to exceed the opacity standard. The permittee shall investigate the cause, make any necessary corrections, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the standard continue, the permittee will conduct a Method 9 assessment within the next operating day of the sources associated with the potential noncompliance to determine the degree of opacity and will notify the NYSDEC if the method 9 test indicates that the opacity standard is not met. Records of visible emissions observations (or any follow-up method 9 tests), investigations and corrective actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition, it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department. Parameter Monitored: OPACITY Upper Permit Limit: 20 percent.

Condition 80

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES Monitoring Description: Continuous monitoring of emissions of NOx and CO from the gas turbine and duct burner is required. Continuous monitors shall meet the requirements of 40 CFR Appendix B or F except where other parts of this title specify or permit equivalent testing and reporting requirements.

Condition 81

Monitoring Type: INTERMITTENT EMISSION TESTING Monitoring Description: Carbon monoxide (CO) emissions shall not exceed the limit stated herein. CO emissions shall be measured by a stack test once per permit term. Parameter Monitored: CARBON MONOXIDE Upper Permit Limit: 51 pounds per hour.

Condition 82

Monitoring Type: INTERMITTENT EMISSION TESTING Monitoring Description: Carbon monoxide (CO) emissions shall not exceed the limit stated herein. CO emissions shall be measured



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by a stack test once per permit term. Parameter Monitored: CARBON MONOXIDE Upper
Permit Limit: 0.10 pounds per million Btus.

Condition 85

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES Monitoring

Description: Notwithstanding the provisions of paragraph (h)(1) of 40 CFR 60.334(h), the owner or operator may elect not to monitor the total sulfur content of the gaseous fuel combusted in the turbine, if the gaseous fuel is demonstrated to meet the definition of natural gas in §60.331(u), regardless of whether an existing custom schedule approved by the administrator for subpart GG requires such monitoring. The owner or operator shall use one of the following sources of information to make the required demonstration: (i) The gas quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the gaseous fuel, specifying that the maximum total sulfur content of the fuel is 20.0 grains/100 scf or less; or (ii) Representative fuel sampling data which show that the sulfur content of the gaseous fuel does not exceed 20 grains/100 scf. At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of appendix D to 40 CFR part 75 of this chapter is required.

Condition 86

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES Monitoring

Description: (1) The facility shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§97.413 through 97.418 of Subpart AAAAA. The facility shall notify the Department of this representative (and alternative) with contact information upon issuance of this permit and when any changes are made to the representative (or alternative) or their contact information. (2) The facility, and the designated representative, of each TR NOX Annual source (facility) and each TR NOx Annual Unit at the facility shall comply with the monitoring, reporting, and recordkeeping requirements of §§97.430 through 97.435 of Subpart AAAAA and subpart H of part 75 of this chapter. This includes but is not limited to: requirements for installation, certification, and data accounting for all required monitoring systems; requirements for recording, reporting, and quality-assurance of the data; and certification of compliance of such data. Data from continuous emission monitoring equipment are submitted quarterly (calendar year). These reports are generally due 30 days after the end of a calendar quarter. All other monitoring data are submitted to the DEC semiannually (calendar year). These reports are due on January 30th and July 30th of each year. (3) The emissions data determined shall be used to calculate allocations of TR NOx Annual allowances and to determine compliance with the TR NOx Annual emissions limitation and assurance provisions. As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NOx Annual facility and each TR NOx Annual Unit at the facility shall hold, in the facilities compliance account, TR NOx Annual allowances available for deduction for such control



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period under §97.424(a) in an amount not less than the tons of total NO_x emissions for such control period from all TR NO_x Annual Units at the facility.

Condition 87

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE
Monitoring Description: No owner or operator of a combustion installation shall emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average utilizing a continuous opacity monitor (COM).
Parameter Monitored: OPACITY **Upper Permit Limit:** 20 percent.

Condition 91

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description: The owners and operators of the CO₂ budget source and each CO₂ budget unit at the source shall keep on site at the source each of the following documents for a period of 10 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 10 years, in writing by the department. (i) The account certificate of representation for the CO₂ authorized account representative for the source and each CO₂ budget unit at the source and all documents that demonstrate the truth of the statements in the account certificate of representation, in accordance with 6 NYCRR Part 242-2.4, provided that the certificate and documents shall be retained on site at the source beyond such 10-year period until such documents are superseded because of the submission of a new account certificate of representation. (ii) All emissions monitoring information, in accordance with Subpart 242-8 and 40 CFR 75.57. (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CO₂ Budget Trading Program. (iv) Copies of all documents used to complete a CO₂ budget permit application and any other submission under the CO₂ Budget Trading Program or to demonstrate compliance with the requirements of the CO₂ Budget Trading Program. The CO₂ authorized account representative of a CO₂ budget source and each CO₂ budget unit at the source shall submit the reports and compliance certifications required under the CO₂ Budget Trading Program, including those under Subpart 242-4.

Condition 92

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description: Annual Compliance Certification Report: (a) For each control period in which a CO₂ budget source is subject to the CO₂ requirements of subdivision 242-1.5(c) of this Part, CO₂ authorized account representative of the source shall submit to the department by March 1st following the relevant control period, a compliance certification report. The control period is a three-calendar-year time period. (b) The compliance certification report shall include the following elements: (1) identification of the source and each CO₂ budget unit at the source; (2) as an option, the serial numbers of the CO₂ allowances that are to be deducted from the source's compliance



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account under section 242-6.5 of this Part for the control period, including the serial numbers of any CO₂ offset allowances that are to be deducted subject to the limitations of section 242-6.5(a)(3) of this Part; and (3) the compliance certification under subdivision (c) of this section (below). (c) In the compliance certification report the CO₂ authorized account representative shall certify, based on reasonable inquiry of those persons with primary responsibility for operating the source and the CO₂ budget units at the source in compliance with the CO₂ Budget Trading Program, whether the source and each CO₂ budget unit at the source for which the compliance certification is submitted was operated during the calendar years covered by the report in compliance with the requirements of the CO₂ Budget Trading Program, including: (1) whether the source was operated in compliance with the CO₂ requirements of section 242-1.5(c) of this Part; (2) whether the monitoring plan applicable to each unit at the source has been maintained to reflect the actual operation and monitoring of the unit, and contains all information necessary to attribute CO₂ emissions to the unit, in accordance with Subpart 242-8 of this Part;

(3) whether all the CO₂ emissions from the units at the source were monitored or accounted for through the missing data procedures and reported in the quarterly monitoring reports, including whether conditional data were reported in the quarterly reports in accordance with Subpart 242-8 of this Part. If conditional data were reported, the owner or operator shall indicate whether the status of all conditional data has been resolved and all necessary quarterly report resubmissions have been made; (4) whether the facts that form the basis for certification under Subpart 242-8 of each monitor at each unit at the source, or for using an excepted monitoring method or alternative monitoring method approved under Subpart 242-8 of this Part, if any, have changed; and (5) if a change is required to be reported under paragraph (c)(4) above, specify the nature of the change, the reason for the change, when the change occurred, and how the unit's compliance status was determined subsequent to the change, including what method was used to determine emissions when a change mandated the need for monitor recertification.

Condition 93

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES Monitoring

Description: Recordkeeping and Reporting (6NYCRR Part 242-8.5) (a) General provisions. The CO₂ authorized account representative shall comply with all recordkeeping and reporting requirements in this section, the applicable record keeping and reporting requirements under 40 CFR 75.73 and with the requirements of section 242-2.1(e) of this Part. (b) Monitoring plans. The owner or operator of a CO₂ budget unit shall submit a monitoring plan in the manner prescribed in 40 CFR 75.62. (c) Certification applications. The CO₂ authorized account representative shall submit an application to the department within 45 days after completing all CO₂ monitoring system initial certification or recertification tests required under section 242-8.2 of this Subpart including the information required under 40 CFR 75.63 and 40 CFR 75.53(e) and (f). (d) Quarterly reports. The CO₂ authorized account representative shall submit quarterly reports, as follows: (1) The CO₂ authorized account representative shall report the CO₂ mass emissions data



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and heat input data for the CO₂ budget unit, in an electronic format prescribed by the administrator unless otherwise prescribed by the department for each calendar quarter. (2) The CO₂ authorized account representative shall submit each quarterly report to the department or its agent within 30 days following the end of the calendar quarter covered by the report. Quarterly reports shall be submitted in the manner specified in subpart H of 40 CFR part 75 and 40 CFR 75.64. Quarterly reports shall be submitted for each CO₂ budget unit (or group of units using a common stack), and shall include all of the data and information required in subpart G of 40 CFR part 75, except for opacity, NO_x, and SO₂ provisions. (3) The CO₂ authorized account representative shall submit to the department or its agent a compliance certification in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The certification shall state that: (i) the monitoring data submitted were recorded in accordance with the applicable requirements of this Subpart and 40 CFR part 75, including the quality assurance procedures and specifications; (ii) for a unit with add-on CO₂ emissions controls and for all hours where data are substituted in accordance with 40 CFR 75.34(a)(1), the add-on emissions controls were operating within the range of parameters listed in the quality assurance/quality control program under appendix B of 40 CFR part 75 and the substitute values do not systematically underestimate CO₂ emissions; and (iii) the CO₂ concentration values substituted for missing data under Subpart D of 40 CFR part 75 do not systematically underestimate CO₂ emissions.

Condition 94

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES Monitoring

Description: Recordkeeping and Reporting (6NYCRR Part 242-8.5) (a) General provisions. The CO₂ authorized account representative shall comply with all recordkeeping and reporting requirements in this section, the applicable record keeping and reporting requirements under 40 CFR 75.73 and with the requirements of section 242-2.1(e) of this Part. (b) Monitoring plans. The owner or operator of a CO₂ budget unit shall submit a monitoring plan in the manner prescribed in 40 CFR 75.62. (c) Certification applications. The CO₂ authorized account representative shall submit an application to the department within 45 days after completing all CO₂ monitoring system initial certification or recertification tests required under section 242-8.2 of this Subpart including the information required under 40 CFR 75.63 and 40 CFR 75.53(e) and (f). (d) Quarterly reports. The CO₂ authorized account representative shall submit quarterly reports, as follows: (1) The CO₂ authorized account representative shall report the CO₂ mass emissions data and heat input data for the CO₂ budget unit, in an electronic format prescribed by the administrator unless otherwise prescribed by the department for each calendar quarter. (2) The CO₂ authorized account representative shall submit each quarterly report to the department or its agent within 30 days following the end of the calendar quarter covered by the report. Quarterly reports shall be submitted in the manner specified in subpart H of 40 CFR part 75 and 40 CFR 75.64. Quarterly reports shall be submitted for each CO₂ budget unit (or group of units using a



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common stack), and shall include all of the data and information required in subpart G of 40 CFR part 75, except for opacity, NO_x, and SO₂ provisions. (3) The CO₂ authorized account representative shall submit to the department or its agent a compliance certification in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The certification shall state that: (i) the monitoring data submitted were recorded in accordance with the applicable requirements of this Subpart and 40 CFR part 75, including the quality assurance procedures and specifications; (ii) for a unit with add-on CO₂ emissions controls and for all hours where data are substituted in accordance with 40 CFR 75.34(a)(1), the add-on emissions controls were operating within the range of parameters listed in the quality assurance/quality control program under appendix B of 40 CFR part 75 and the substitute values do not systematically underestimate CO₂ emissions; and (iii) the CO₂ concentration values substituted for missing data under Subpart D of 40 CFR part 75 do not systematically underestimate CO₂ emissions.



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