



**New York State Department of Environmental Conservation
Permit Review Report**

Permit ID: 1-4722-02441/00003

Renewal Number: 2

11/12/2014

Facility Identification Data

Name: NISSEQUOGUE COGEN PARTNERS PLANT

Address: 2099 SUNY@ STONY BROOK

STONY BROOK, NY 11794-2099

Owner/Firm

Name: NISSEQUOGUE COGEN PARTNERS

Address: 500 DELAWARE AVE, STE 600

WILMINGTON, DE 19801, USA

Owner Classification: Corporation/Partnership

Permit Contacts

Division of Environmental Permits:

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STONY BROOK, NY 11790

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Division of Air Resources:

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Air Permitting Contact:

Name: GLEN STOCKHAUSEN

Address: NISSEQUOGUE COGEN PARTNERS PLANT

2099 SUNY@STONY BROOK

STONY BROOK, NY 11794-2099

Phone:6316329900

Permit Description

Introduction

The Title V operating air permit is intended to be a document containing only enforceable terms and conditions as well as any additional information, such as the identification of emission units, emission points, emission sources and processes, that makes the terms meaningful. 40 CFR Part 70.7(a)(5) requires that each Title V permit have an accompanying "...statement that sets forth the legal and factual basis for the draft permit conditions". The purpose for this permit review report is to satisfy the above requirement by providing pertinent details regarding the permit/application data and permit conditions in a more easily understandable format. This report will also include background narrative and explanations of regulatory decisions made by the reviewer. It should be emphasized that this permit review report, while based on information contained in the permit, is a separate document and is not itself an enforceable term and condition of the permit.

Summary Description of Proposed Project

Application for renewal of Air Title V Permit.

Attainment Status

NISSEQUOGUE COGEN PARTNERS PLANT is located in the town of BROOKHAVEN in the county



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of SUFFOLK.

The attainment status for this location is provided below. (Areas classified as attainment are those that meet all ambient air quality standards for a designated criteria air pollutant.)

Criteria Pollutant	Attainment Status
Particulate Matter (PM)	ATTAINMENT
Particulate Matter < 10µ in diameter (PM10)	ATTAINMENT
Sulfur Dioxide (SO2)	ATTAINMENT
Ozone*	SEVERE NON-ATTAINMENT
Oxides of Nitrogen (NOx)**	ATTAINMENT
Carbon Monoxide (CO)	ATTAINMENT

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

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

Facility Description:

The facility consists of one (1) general electric LM6000 PC gas turbine and one (1) Coen duct burner (existing). Both units are capable of burning natural gas and light distillate oil. The turbine is rated at 460 mmBtu/hr (natural gas firing at 59 degrees F) and 440 mmbtu/hr (oil firing at 59 degrees F). The duct burner is rated at 210 mmBtu/hr (gas) and 204 mmBtu/hr (oil).

Permit Structure and Description of Operations

The Title V permit for NISSEQUOGUE COGEN PARTNERS PLANT

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.

NISSEQUOGUE COGEN PARTNERS PLANT is defined by the following emission unit(s):



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Emission unit 100001 - A steam and electric power generation system consisting of a General Electric LM 6000 PC gas turbine and a Coen duct burner. Both units are capable of firing natural gas and light distillate oil (Distillate Fuel Oil No. 2 and Lighter). Both the turbine and the duct burner exhaust to a common stack.

The maximum design capacity is 475 nominal million BTU/hr for the turbine. The turbine is nominally rated at 460 nominal million BTU/hr (natural gas firing at 59 degrees F) and 440 nominal million BTU/hr (light distillate oil firing at 59 degrees F). The duct burner is nominally rated at 210 nominal million BTU/hr (gas) and 204 nominal million BTU/hr (light distillate oil).

The duct burner cannot operate independently from the turbine.

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

P0001

Process: D01 is located at Building COGEN - GE LM 6000 PC combustion turbine and Coen duct burner with supplemental firing. The turbine is firing natural gas while the duct burner is firing light distillate oil (Distillate Fuel Oil No. 2 and Lighter).

Process: D02 is located at Building COGEN - GE LM 6000 PC combustion turbine and Coen duct burner with supplemental firing. The turbine is firing light distillate oil (Distillate Fuel Oil No. 2 and Lighter) while the duct burner is firing natural gas.

Process: G01 is located at Building COGEN - GE LM 6000 PC combustion turbine and Coen duct burner. The turbine and duct burner both fire natural gas.

Process: G02 is located at Building COGEN - GE LM 6000 PC combustion turbine and Coen duct burner. Only the turbine is firing gas, the duct burner is not operational.

Process: O01 is located at Building COGEN - GE LM 6000 PC combustion turbine and Coen duct burner with supplemental firing. The turbine and the duct burner are both firing light distillate oil (Distillate Fuel Oil No. 2 and Lighter).

Process: O02 is located at Building COGEN - GE LM 6000 PC combustion turbine and Coen duct burner. Only the turbine is firing light distillate oil (Distillate Fuel Oil No. 2 and Lighter), no duct burner operation.

Process: SPE is located at LOWER FLOOR, Building COGEN - GE LM6000 PC combustion turbine and Coen duct burner with supplemental firing. Both units fire natural gas. A "zone of special operation" refers to specific allowable gas-fired emission rates in lb/hr for NO_x and CO (subset of total gas usage). Special operation is limited to a maximum of 250 hours/year.

The "zone of special operation" (SPE) is intended for periods of extremely high steam loads, low load operating conditions, emergency repair and service, etc.

Note: Specifically this process is the time between when instrumentation indicates a problem and the resolution. This could be due to a problem with the instrumentation or for periods of extremely high steam loads, low load operating conditions, emergency repair and service, etc.

Title V/Major Source Status

NISSEQUOGUE COGEN PARTNERS PLANT is subject to Title V requirements. This determination is based on the following information:

The facility has the potential to emit greater than the major source thresholds of Oxides of Nitrogen and



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Carbon Monoxide. Emissions of NOx and CO are capped at 249 tons per year and therefore not subject to PSD.

Program Applicability

The following chart summarizes the applicability of NISSEQUOGUE COGEN PARTNERS PLANT with regards to the principal air pollution regulatory programs:

Regulatory Program	Applicability
PSD	YES
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	NO
SIP	YES

NOTES:

PSD Prevention of Significant Deterioration (40 CFR 52) - 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 Part 231) - 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) - 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) - 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) - standards of performance for specific



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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) - regulations which mandate the implementation of the acid rain control program for large stationary combustion facilities.

Title VI Stratospheric Ozone Protection (40 CFR 82, Subparts A thru G) - 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) - as per the CAAA, all states are empowered and required to devise the specific combination of controls that, when implemented, will bring about attainment of ambient air quality standards established by the federal government and the individual state. This specific combination of measures is referred to as the SIP. The term here refers to those state regulations that are approved to be included in the SIP and thus are considered federally enforceable.

Compliance Status

Facility is in compliance with all requirements.

SIC Codes

SIC or Standard Industrial Classification code is an industrial code developed by the federal Office of Management and Budget for use, among other things, in the classification of establishments by the type of activity in which they are engaged. Each operating establishment is assigned an industry code on the basis

of its primary activity, which is determined by its principal product or group of products produced or distributed, or services rendered. Larger facilities typically have more than one SIC code.

SIC Code

Description

4911

ELECTRIC SERVICES

4931

ELEC & OTHER SERVICES COMBINED

SCC Codes

SCC or Source Classification Code is a code developed and used" by the USEPA to categorize processes which result in air emissions for the purpose of assessing emission factor information.Each SCC represents

a unique process or function within a source category logically associated with a point of air pollution emissions. Any operation that causes air pollution can be represented by one or more SCC's.

SCC Code

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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	
		lbs/yr	Range
000106-99-0	1,3-BUTADIENE		> 0 but < 10 tpy
000075-07-0	ACETALDEHYDE		> 0 but < 10 tpy
000107-02-8	ACROLEIN		> 0 but < 10 tpy
007440-36-0	ANTIMONY		> 0 but < 10 tpy
007440-38-2	ARSENIC		> 0 but < 10 tpy
000071-43-2	BENZENE		> 0 but < 10 tpy
007440-41-7	BERYLLIUM		> 0 but < 10 tpy
007440-43-9	CADMIUM		> 0 but < 10 tpy
000124-38-9	CARBON DIOXIDE		
000630-08-0	CARBON MONOXIDE	498000	
007440-47-3	CHROMIUM		> 0 but < 10 tpy
007440-48-4	COBALT		> 0 but < 10 tpy
000050-00-0	FORMALDEHYDE		> 0 but < 10 tpy
000110-54-3	HEXANE		> 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
000074-82-8	METHANE		
000091-20-3	NAPHTHALENE		> 0 but < 10 tpy
0NY059-28-0	NICKEL (NI 059)		> 0 but < 10 tpy
0NY210-00-0	OXIDES OF NITROGEN	498000	
0NY075-00-5	PM-10		>= 10 tpy but < 25 tpy
000075-56-9	PROPANE, 1,2-EPOXY-		> 0 but < 10 tpy
007782-49-2	SELENIUM		> 0 but < 10 tpy
007446-09-5	SULFUR DIOXIDE		>= 50 tpy but < 100 tpy

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000108-88-3	TOLUENE	tpy
0NY100-00-0	TOTAL HAP	> 0 but < 10 tpy
0NY998-00-0	VOC	> 0 but < 2.5 tpy
		>= 25 tpy but < 40 tpy
001330-20-7	XYLENE, M, O & P	tpy
	MIXT.	> 0 but < 10 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:

- (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)



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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 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



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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 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

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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.

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	71	Powers and Duties of the Department with respect to air pollution control
FACILITY	40CFR 52-A.21	35, 36, 54	Prevention of Significant Deterioration
1-00001/P0001	40CFR 60-A.11	68	General provisions - compliance with standards and maintenance

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1-00001/P0001	40CFR 60-A.13	69	requirements
			General provisions -
			Monitoring
FACILITY	40CFR 60-A.4	55	requirements
			General provisions -
1-00001	40CFR 60-GG.332 (a) (1)	65	Address
			Standard for Oxides
			of nitrogen for Gas
			Turbines > 100
			mmBTU/hr
FACILITY	40CFR 60-GG.334 (b)	56	Monitoring of
			Operations: CEMS
1-00001	40CFR 60-GG.334 (j)	66	Reporting
			Requirements
1-00001/P0001	40CFR 60-GG.334 (j)	70	Reporting
			Requirements
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	2	Acceptable ambient
			air quality.
FACILITY	6NYCRR 200.7	11	Maintenance of
			equipment.
FACILITY	6NYCRR 201-1.4	72	Unavoidable
			noncompliance and
			violations
FACILITY	6NYCRR 201-1.7	12	Recycling and Salvage
FACILITY	6NYCRR 201-1.8	13	Prohibition of
			reintroduction of
			collected
			contaminants to the
			air
FACILITY	6NYCRR 201-3.2 (a)	14	Exempt Activities -
			Proof of eligibility
FACILITY	6NYCRR 201-3.3 (a)	15	Trivial Activities -
			proof of eligibility
FACILITY	6NYCRR 201-6	22, 23, 24, 25, 26,	Title V Permits and
		27, 28, 29, 30, 31,	the Associated Permit
		32, 33, 57, 58	Conditions
1-00001	6NYCRR 201-6	59, 60, 61, 62, 63,	Title V Permits and
		64	the Associated Permit
			Conditions
FACILITY	6NYCRR 201-6.4 (a) (4)	16	General Conditions -
			Requirement to
			Provide Information
FACILITY	6NYCRR 201-6.4 (a) (7)	3	General Conditions -
			Fees
FACILITY	6NYCRR 201-6.4 (a) (8)	17	General Conditions -
			Right to Inspect
FACILITY	6NYCRR 201-6.4 (c)	4	Recordkeeping and
			Reporting of
			Compliance Monitoring
FACILITY	6NYCRR 201-6.4 (c) (2)	5	Records of
			Monitoring, Sampling
			and Measurement
FACILITY	6NYCRR 201-	6	Reporting
	6.4 (c) (3) (ii)		Requirements -
			Deviations and
			Noncompliance
FACILITY	6NYCRR 201-6.4 (d) (4)	1	Compliance Schedules
			- Progress Reports



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FACILITY	6NYCRR 201-6.4 (e)	7	Compliance
FACILITY	6NYCRR 201-6.4 (f) (6)	18	Certification
FACILITY	6NYCRR 201-7	34, 35, 36	Off Permit Changes
FACILITY	6NYCRR 202-1.1	19	Federally Enforceable Emissions Caps
FACILITY	6NYCRR 202-2.1	8	Required emissions tests.
FACILITY	6NYCRR 202-2.5	9	Emission Statements - Applicability
FACILITY	6NYCRR 211.1	37, 73	Emission Statements - record keeping requirements.
FACILITY	6NYCRR 215.2	10	General Prohibitions - air pollution prohibited
FACILITY	6NYCRR 225-1.2 (g)	38	Open Fires - Prohibitions
FACILITY	6NYCRR 225-1.2 (h)	39	Sulfur-in-Fuel Limitations
1-00001/P0001	6NYCRR 227-1.3 (a)	67	Sulfur-in-Fuel Limitations
FACILITY	6NYCRR 243-1.6 (a)	40	Smoke Emission Limitations.
FACILITY	6NYCRR 243-1.6 (b)	41	Permit Requirements - CAIR NOx Ozone Season Trading Program
FACILITY	6NYCRR 243-1.6 (c)	42	Monitoring Requirements - CAIR NOx Ozone Season Trading Program
FACILITY	6NYCRR 243-1.6 (d)	43	NOx Ozone Season Emission Requirements - CAIR NOx Ozone Season Trading Program
FACILITY	6NYCRR 243-1.6 (e)	44	Excess Emission Requirements - CAIR NOx Ozone Season Trading Program
FACILITY	6NYCRR 243-2.1	45	Recordkeeping and reporting requirements - CAIR NOx Ozone Season Trading Program
FACILITY	6NYCRR 243-2.4	46	Authorization and responsibilities - CAIR Designated Representative Certificate of representation - CAIR Designated Representative
FACILITY	6NYCRR 243-8.5 (d)	47	Quarterly reports re: recordkeeping and reporting - Monitoring and Reporting
FACILITY	6NYCRR 243-8.5 (e)	48	Reporting Compliance certification re: recordkeeping and reporting - Monitoring and Reporting
FACILITY	6NYCRR 244-1	49	CAIR NOx Ozone Annual



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FACILITY	6NYCRR 244-2	50	Trading Program General Provisions CAIR Designated Representative for CAIR NOx Sources
FACILITY	6NYCRR 244-8	51	Monitoring and Reporting CAIR NOx Allowances
FACILITY	6NYCRR 245-2	52	CAIR Designated Representative for CAIR SO2 Sources
FACILITY	6NYCRR 245-8	53	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

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



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a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains trivial emission sources or units subject to this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

6 NYCRR Subpart 201-6

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

6 NYCRR 201-6.4 (a) (4)

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

6 NYCRR 201-6.4 (a) (7)

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

6 NYCRR 201-6.4 (a) (8)

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

6 NYCRR 201-6.4 (c)

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

6 NYCRR 201-6.4 (c) (2)

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



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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)

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 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



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In addition to Title V, NISSEQUOGUE COGEN PARTNERS PLANT has been determined to be subject to the following regulations:

40 CFR 52.21

This citation applies to facilities that are subject to Prevention of Significant Deterioration provisions;

ie: facilities that are located in an attainment area and that emit pollutants which are listed in 40 CFR 52.21(b)(23)(i) .

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 60.13

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 60.332 (a) (1)

This regulation provides the equation to be used to determine the allowable emissions of oxides of nitrogen (NO_x) from a gas turbine with a heat input greater than 100 million BTU per hour.

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 (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).

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 (g)

Sulfur-in-fuel limitations for the purchase of distillate oil on or after July 1, 2014.



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6 NYCRR 225-1.2 (h)

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

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 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 Departments 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) NOx Ozone Season Trading Program. This ozone season NOx 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 NOx Ozone Season allowances that is not less than the total tons of NOx emissions for the ozone season.

6 NYCRR 243-1.6 (d)

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

6 NYCRR 243-1.6 (e)

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

6 NYCRR 243-2.4



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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 243-8.5 (d)

This citation of the Clean Air Interstate Rule (CAIR) NO_x Ozone Season Trading Program explains 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.

6 NYCRR Subpart 201-7

This regulation sets forth an emission cap that cannot be exceeded by the facility.

6 NYCRR Subpart 244-1

This subpart explains the general provisions of the Clean Air Interstate Rule (CAIR) Nitrogen Oxide (NO_x) Annual Trading Program. The control period for this annual NO_x 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 NO_x allowances that is not less than the total tons of NO_x emissions for the control period.

6 NYCRR Subpart 244-2

Each Clean Air Interstate Rule (CAIR) NO_x source shall have one CAIR designated representative and may have one alternate representative. Each submission for the CAIR NO_x 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 NO_x 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 NO_x emission monitoring system must be used to measure NO_x emissions. NO_x emission reports must be certified and submitted quarterly.

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

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in Subpart 6 NYCRR Part 245-8 and in 40 CFR Part 75, Subparts F and G. A certified SO2 emission 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 NISSEQUOGUE COGEN PARTNERS PLANT:

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

FACILITY	54	record keeping/maintenance procedures
1-00001/P0001	68	record keeping/maintenance procedures
1-00001/P0001	69	record keeping/maintenance procedures
1-00001	65	intermittent emission testing
1-00001	66	record keeping/maintenance procedures
1-00001/P0001	70	record keeping/maintenance procedures
FACILITY	23	continuous emission monitoring (cem)
FACILITY	24	continuous emission monitoring (cem)
FACILITY	25	work practice involving specific operations
FACILITY	26	continuous emission monitoring (cem)
FACILITY	27	continuous emission monitoring (cem)
FACILITY	28	continuous emission monitoring (cem)
FACILITY	29	work practice involving specific operations
FACILITY	30	continuous emission monitoring (cem)
FACILITY	31	continuous emission monitoring (cem)
FACILITY	32	continuous emission monitoring (cem)
FACILITY	33	record keeping/maintenance procedures
1-00001	59	monitoring of process or control device parameters as surrogate
1-00001	60	monitoring of process or control device parameters as surrogate
1-00001	61	record keeping/maintenance procedures
1-00001	62	record keeping/maintenance procedures
1-00001	63	record keeping/maintenance procedures
1-00001	64	record keeping/maintenance procedures
FACILITY	6	record keeping/maintenance procedures
FACILITY	7	record keeping/maintenance procedures
FACILITY	35	continuous emission monitoring (cem)
FACILITY	36	continuous emission monitoring (cem)
FACILITY	8	record keeping/maintenance procedures
FACILITY	73	record keeping/maintenance procedures
FACILITY	38	work practice involving specific operations
FACILITY	39	work practice involving specific operations
1-00001/P0001	67	monitoring of process or control device parameters as surrogate
FACILITY	51	record keeping/maintenance procedures
FACILITY	53	record keeping/maintenance procedures

Basis for Monitoring

The facility consists of one (1) general electric LM6000 PC gas turbine and one (1) coen duct burner (existing). Both units are capable of burning natural gas and light distillate oil. The turbine is rated at 460 MMBTU/hr (Natural gas firing at 59 Degree F) and 440 MMBTU/hr (Oil firing at 59 Degrees F). The



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duct burner is rated at 210 MMBTU/hr (Gas) and 204 MMBTU/hr (Oil).

The facility operates a Continuous Emission Monitoring System (CEMS) for NO_x and CO. The facility exceeds the threshold for a major source for NO_x and CO, the upper limits for both pollutants is set at 249 tons per year.

Individual limits are established for NO_x and CO using CEMS while operating with Gas, Oil or Zone of Special Operation. The limits are both in ppm and in pounds per hour basis.

Fuel heating value and electrical output must be monitored continuously

There are limits for the fuel usage of distillate oil as well. The facility can use up to 3,254,000 gallons per year for the turbine and 1,5,800 gallons per year for the duct burner. The sulfur content of the distillate oil cannot exceed 0.20% by weight.

Duct burner usage is limited to 900,000 MMBTU/per year.

The facility cannot emit emissions with greater than 20% average for a period of 6 minutes.

A quarterly report must be submitted to the Department showing excess emissions reports, quarterly monitoring performance audit etc.