

Permit ID: 1-4722-04426/00007

Renewal Number: 1 12/01/2021

Facility Identification Data

Name: CAITHNESS LONG ISLAND ENERGY CENTER

Address: 50 ZORN BLVD SOUTH YAPHANK, NY 11980

Owner/Firm

Name: CAITHNESS LONG ISLAND LLC

Address: 565 5TH AVE FL 29 NEW YORK, NY 10017, USA

Owner Classification: Corporation/Partnership

Permit Contacts

Division of Environmental Permits:

Name: KEVIN A KISPERT

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50 CIRCLE RD

STONY BROOK, NY 11790

Phone:6314440302

Division of Air Resources: Name: MEIR X CYNAMON

Address: 50 Circle Rd

Stony Brook, NY 11790-3409

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Air Permitting Contact: Name: THOMAS A GRACE Address: CAITHNESS ENERGY 565 5TH AVE FL 29 NEW YORK, NY 10017 Phone:9174724593

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

This is a renewal of a Title V permit. The facility also has a PSD permit issued from the United States Environmental Protection Agency (EPA). The Caithness Long Island Energy Center is a 346 megawatt (MW), dual fuel, combined-cycle electric generating station. The project is subject to prevention of



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significant deterioration (PSD) requirements for the following pollutants: oxides of nitrogen (NOx), carbon monoxide (CO), and particulate matter (PM & PM10). The facility is no longer subject to PSD requirements for sulfur dioxide (SO2) and sulfuric acid mist (H2SO4). This is because current New York State sulfur-in-fuel limitations keep the facility's emissions of these contaminants below PSD thresholds. The facility is also subject to nonattainment new source review for NOx and volatile organic compounds (VOCs).

Notable changes to the Title V permit include the following: the sulfuric acid mist emission limits have been removed (PSD emission limits for SO2 were not in the previous Title V permit); references to the Clean Air Interstate Rule (CAIR) were removed and Cross-State Air Pollution Rule (CSAPR) citations were added; conditions for Part 242, CO2 Budget Trading Program and Part 251, CO2 Performance Standards for Major Electric Generating Facilities were added; reference to the previously disconnected fuel gas heater have been removed; based on the results of air quality modeling, operation of the auxiliary boiler while the combustion turbine operates is now authorized under additional scenarios; a NOx RACT emission limit was added for the auxiliary boiler; the duct burner time use limit has been converted to a maximum annual heat input limit; to be consistent with the PSD permit, stack tests for the combustion turbine/duct burner and auxiliary boiler are now required every five years instead of once during term of the permit and stack tests for the emergency fire pump are no longer required unless requested by the Department; startup conditions were simplified and limits are now dependent on the HP drum pressure only; the steady-state emission limit conditions for CO and NOx were updated to clarify that these limits do not apply during startup and shutdown; and fuel switching is now treated as oil firing with respect to emission limits of CO and NOx.



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Attainment Status

CAITHNESS LONG ISLAND ENERGY CENTER is located in the town of BROOKHAVEN in the county 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 |

Facility Description:

The facility consists of one Siemens Westinghouse 501F combustion turbine ducted into a heat recovery steam generator (HRSG). The combustion turbine primarily fires natural gas with low sulfur distillate oil used as a backup. The HRSG has a natural gas fired duct burner. The facility also has a dual fuel auxiliary boiler, and an emergency diesel fire pump. The facility nominally produces 346 MW of power.

Permit Structure and Description of Operations

The Title V permit for CAITHNESS LONG ISLAND 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

^{*} 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.



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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.

CAITHNESS LONG ISLAND ENERGY CENTER is defined by the following emission unit(s):

Emission unit U00002 - This emission unit consists of an auxiliary boiler which fires natural gas as its primary fuel with distillate oil back-up. The boiler uses a low NOx burner in combination with flue gas recirculation to control emissions of NOx.

Emission unit U00002 is associated with the following emission points (EP):

EP002

Process: P05 is located at Building GEN01 - Auxiliary boiler firing natural gas.

Process: P06 is located at Building GEN01 - Auxiliary boiler firing distillate oil. When the auxiliary boiler fires distillate oil the heat input is 28.0 mmBtu/hr (HHV).

Emission unit U00003 - This emission unit consists of a a diesel fire pump.

Emission unit U00003 is associated with the following emission points (EP):

EP004

Process: P08 Diesel fire pump operation.

Emission unit U00001 - This emission unit consists of one Siemens-Westinghouse 501F combustion turbine and a duct fired HRSG. The combustion turbine will fire primarily natural gas with distillate oil back-up. The duct burner is limited to firing only natural gas. The turbine uses dry low NOx technology in combination with a SCR to control emissions of NOx. The turbine also employs an oxidation catalyst to control emissions of carbon monoxide, VOCs, and HAPs.

Emission unit U00001 is associated with the following emission points (EP):

EP001

Process: P01 is located at Building GEN01 - Combustion turbine firing natural gas.

Process: P02 is located at Building GEN01 - Combustion turbine firing natural gas in combination with the duct burner firing natural gas.



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Process: P03 is located at Building GEN01 - Combustion turbine firing distillate oil. When the combustion turbine fires distillate oil the heat input is 2,125 mmBtu/hr (HHV).

Process: P04 is located at Building GEN01 - Combustion turbine firing distillate oil in combination with the duct burner firing natural gas. During this operating scenario the duct burner is limited to operating at no more than 369 mmBtu/hr heat input.

Process: P09 is located at Building GEN01 - Startup, shutdown, and fuel switching of the combustion turbine for operations using either natural gas or distillate oil. Based on operational data, fuel switching is being treated as a "hot" startup on oil; with the same limits on duration and emissions.

Title V/Major Source Status

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

The facility has the potential to exceed the Title V applicability threshold for Oxides of Nitrogen (NOx).

Program Applicability

The following chart summarizes the applicability of CAITHNESS LONG ISLAND 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) | YES |
| 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,



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

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

Compliance Status

Facility is in compliance with all requirements.

SIC Codes

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

SIC Code Description



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SCC Codes

SCC Code

2-02-001-02

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.

Description

DISTILLATE OIL(DIESEL)

Reciprocating

INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION ENGINE -

| 1-02-005-02 | EXTERNAL COMBUSTION BOILERS - INDUSTRIAL |
|-------------|---|
| | INDUSTRIAL BOILER - DISTILLATE OIL |
| | 10-100MMBTU/HR ** |
| 1-02-006-02 | EXTERNAL COMBUSTION BOILERS - INDUSTRIAL |
| | INDUSTRIAL BOILER - NATURAL GAS |
| | 10-100 MMBtu/Hr |
| 2-01-001-01 | INTERNAL COMBUSTION ENGINES - ELECTRIC |
| | GENERATION |
| | ELECTRIC UTILITY INTERNAL COMBUSTION ENGINE |
| | - DISTILLATE OIL (DIESEL) |
| | Turbine |
| 2-01-002-01 | INTERNAL COMBUSTION ENGINES - ELECTRIC |
| | GENERATION |
| | ELECTRIC UTILITY INTERNAL COMBUSTION ENGINE |
| | - NATURAL GAS |
| | Turbine |
| | |

Facility Emissions Summary

In the following table, the CAS No. or Chemical Abstract Service code is an identifier assigned to every chemical compound. [NOTE: Certain CAS No.'s contain a 'NY' designation within them. These are not true CAS No.'s but rather an identification which has been developed by the department to identify groups of contaminants which ordinary CAS No.'s do not do. As an example, volatile organic compounds or VOC's are identified collectively by the NY CAS No. 0NY998-00-0.] The PTE refers to the Potential to Emit. This is defined as the maximum capacity of a facility or air contaminant source to emit any air contaminant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or air contamination source to emit any air contaminant, including air pollution control equipment and/or restrictions on the hours of operation, or on the type or amount or material combusted, stored, or processed, shall be treated as part of the design only if the limitation is contained in federally enforceable permit conditions. The PTE for each contaminant that is displayed represents the facility-wide PTE in tons per year (tpy) or pounds per year (lbs/yr). In some instances the PTE represents a federally enforceable emissions cap or limitation for that contaminant. The term 'HAP' refers to any of the hazardous air pollutants listed in section 112(b) of the Clean Air Act Amendments of 1990. Total emissions of all hazardous air pollutants are listed under the special NY CAS No. 0NY100-00-0. In addition, each individual hazardous air pollutant is also listed under its own specific CAS No. and is identified in the list below by the (HAP) designation.

| Cas No. | Contaminant | PTE lbs/yr | PTE tons/yr | Actual lbs/yr | Actual tons/yr |
|-------------|-------------|------------|-------------|---------------|----------------|
| 007664-41-7 | AMMONIA | • | 69.2 | • | · |
| 000124-38-9 | CARBON | | 12824827 | | |
| | DIOXIDE | | | | |



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| 000630-08-0 | CARBON MONOXIDE | 541800 | |
|-------------|--------------------|--------|-----|
| 007439-92-1 | LEAD | 24 | |
| 0NY210-00-0 | OXIDES OF | 180600 | |
| | NITROGEN | | |
| 0NY075-00-0 | PARTICULATES | 181420 | |
| 0NY075-00-5 | PM-10 | 181420 | |
| 007446-09-5 | SULFUR | 22060 | |
| | DIOXIDE | | |
| 007664-93-9 | SULFURIC ACID | 8180 | |
| 0NY100-00-0 | TOTAL HAP | | 6.7 |
| 0NY998-00-0 | VOC | 125800 | |

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

Item A: Public Access to Recordkeeping for Title V Facilities - 6 NYCRR 201-1.10(b)

The Department will make available to the public any permit application, compliance plan, permit, and monitoring and compliance certification report pursuant to Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to 6 NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.

Item B: Timely Application for the Renewal of Title V Permits -6 NYCRR Part 201-6.2(a)(4)

Owners and/or operators of facilities having an issued Title V permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.

Item C: Certification by a Responsible Official - 6 NYCRR Part 201-6.2(d)(12)

Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official. This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Item D: Requirement to Comply With All Conditions - 6 NYCRR Part 201-6.4(a)(2)

The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

Item E: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR Part 201-6.4(a)(3)

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.



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Item F: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR 201-6.4(a)(5)

It shall not be a defense for a permittee in an enforcement action to claim that a cessation or reduction in the permitted activity would have been necessary in order to maintain compliance with the conditions of this permit.

Item G: Property Rights - 6 NYCRR 201-6.4(a)(6)

This permit does not convey any property rights of any sort or any exclusive privilege.

Item H: Severability - 6 NYCRR Part 201-6.4(a)(9)

If any provisions, parts or conditions of this permit are found to be invalid or are the subject of a challenge, the remainder of this permit shall continue to be valid.

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

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

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

Item J: Reopening for Cause - 6 NYCRR Part 201-6.4(i)

This Title V permit shall be reopened and revised under any of the following circumstances:

i. If additional applicable requirements under the Act become applicable where this permit's remaining term is three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 2 01-6.7 and Part 621.



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- ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.
- iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

Proceedings to reopen and issue Title V facility permits shall follow the same procedures as apply to initial permit issuance but shall affect only those parts of the permit for which cause to reopen exists.

Reopenings shall not be initiated before a notice of such intent is provided to the facility by the Department at least thirty days in advance of the date that the permit is to be reopened, except that the Department may provide a shorter time period in the case of an emergency.

Item K: Permit Exclusion - ECL 19-0305

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

Item L: Federally Enforceable Requirements - 40 CFR 70.6(b)

All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

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



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conditions for all facilities in New York State.

- (a) The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - (1) An emergency occurred and that the facility owner or operator can identify the cause(s) of the emergency;
 - (2) The equipment at the permitted facility causing the emergency was at the time being properly operated and maintained;
 - (3) During the period of the emergency the facility owner or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
 - (4) The facility owner or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.
- (b) In any enforcement proceeding, the facility owner or operator seeking to establish the occurrence of an emergency has the burden of proof.
- (c) This provision is in addition to any emergency or upset provision contained in any applicable requirement. item_02

Item B: General Provisions for State Enforceable Permit Terms and Condition - 6 NYCRR Part 201-5

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

Regulatory Analysis

| Location Facility/EU/EP/Pr | Regulation occess/ES | Condition | Short Description |
|-------------------------------|----------------------|-----------|---|
| FACILITY | ECL 19-0301 | 129 | Powers and Duties of the Department with respect to air |



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| | 40GED 60 3 11 | 2.0 | Control of the last |
|----------------------|----------------------------------|----------|--|
| FACILITY | 40CFR 60-A.11 | 38 | General provisions - compliance with |
| | | | standards and maintenance |
| | | | requirements |
| FACILITY | 40CFR 60-A.12 | 39 | General provisions - Circumvention |
| FACILITY | 40CFR 60-A.13 | 40 | General provisions - Monitoring |
| | | | requirements |
| FACILITY | 40CFR 60-A.14 | 41 | General provisions - Modification |
| FACILITY | 40CFR 60-A.15 | 42 | General provisions - Reconstruction |
| FACILITY | 40CFR 60-A.4 | 34 | General provisions - Address |
| FACILITY | 40CFR 60-A.7(b) | 35 | Notification and Recordkeeping |
| FACILITY | 40CFR 60-A.7(c) | 36 | Notification and Recordkeeping |
| FACILITY | 40CFR 60-A.8(d) | 37 | Performance Tests |
| U-00003 | 40CFR 60-IIII.4205(c) | 121 | Emission Standards - Stationary CI-IC Fire Pump Engines |
| | | | Displacing < 30 liters/cylinder |
| U-00003 | 40CFR 60-IIII.4211(b) | 122 | Stationary |
| | | | Compression Ignition Engines - Compliance |
| | | | Demonstration |
| U-00002 | 40CFR 63-JJJJJJ.11195 | 112 | ICI Boiler Area |
| | | | Source NESHAP - Boilers not subject |
| U-00001 | 40CFR 64 | 53, 54 | COMPLIANCE ASSURANCE MONITORING |
| U-00001/EP001 | 40CFR 64 | 109 | COMPLIANCE ASSURANCE MONITORING |
| FACILITY | 40CFR 68 | 18 | Chemical accident prevention provisions |
| FACILITY | 40CFR 72 | 43 | Permits regulation |
| FACILITY | 40CFR 82-F | 19 | Protection of Stratospheric Ozone - recycling and emissions reduction |
| FACILITY | 40CFR 97-AAAAA.406 | 44 | Transport Rule (TR) NOx Annual Trading Program Standard |
| | | | Requirments |
| FACILITY | 40CFR 97-CCCCC.606 | 45 | Transport Rule (TR) SO2 Group 1 Trading Program Standard |
| FACILITY | 40CFR 97-EEEEE | 46 | Requirments CSAPR NOx Ozone Season Group 2 |
| FACILITY | 6NYCRR 200.6 | 1 | Acceptable ambient air quality. |
| FACILITY | 6NYCRR 200.7 | 10 | Maintenance of |
| FACILITY | 6NYCRR 201-1.4 | 130 | equipment. Unavoidable noncompliance and |
| FACILITY FACILITY | 6NYCRR 201-1.7 6NYCRR 201-1.8 | 11 12 | violations Recycling and Salvage Prohibition of reintroduction of collected |



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| | | | contaminants to the air |
|-------------------|-----------------------------|---|---|
| FACILITY | 6NYCRR 201-3.2(a) | 13 | Exempt Activities - Proof of eligibility |
| FACILITY | 6NYCRR 201-3.3(a) | 14 | Trivial Activities - proof of eligibility |
| FACILITY | 6NYCRR 201-6 | 20, 21, 22, 23, 47, 48 | Title V Permits and the Associated Permit Conditions |
| U-00001 | 6NYCRR 201-6 | 49, 50, 51, 52 | Title V Permits and the Associated Permit Conditions |
| U-00001/-/P01 | 6NYCRR 201-6 | 55, 56, 57, 58 | Title V Permits and the Associated Permit Conditions |
| U-00001/-/P02 | 6NYCRR 201-6 | 62, 63, 64, 65 | Title V Permits and the Associated Permit Conditions |
| U-00001/-/P03 | 6NYCRR 201-6 | 69, 70, 71, 72, 73, 74, 75 | Title V Permits and the Associated Permit Conditions |
| U-00001/-/P04 | 6NYCRR 201-6 | 79, 80, 81, 82 | Title V Permits and the Associated Permit |
| U-00001/-/P09 | 6NYCRR 201-6 | 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108 | Conditions Title V Permits and the Associated Permit Conditions |
| U-00002 | 6NYCRR 201-6 | 110 | Title V Permits and the Associated Permit Conditions |
| U-00002/-/P06 | 6NYCRR 201-6 | 114, 115 | Title V Permits and the Associated Permit Conditions |
| U-00002/EP002/P05 | 6NYCRR 201-6 | 117, 118 | Title V Permits and the Associated Permit Conditions |
| U-00002/EP002/P06 | 6NYCRR 201-6 | 119, 120 | Title V Permits and the Associated Permit Conditions |
| U-00003/EP004 | 6NYCRR 201-6 | 123, 124, 125, 126, 127 | Title V Permits and the Associated Permit Conditions |
| FACILITY | 6NYCRR 201-6.4(a)(4) | 15 | General Conditions - Requirement to Provide Information |
| 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) | 24 | Compliance Schedules - Progress Reports |
| FACILITY | 6NYCRR 201-6.4(e) | 6 | Compliance Certification |



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| FACILITY | 6NYCRR 201-6.4(f) | 25 | Operational Flexibility |
|---------------------|--|---------------|--|
| FACILITY | 6NYCRR 201-6.5(a) | 131 | State Enforceable |
| FACILITY | 6NYCRR 202-1.1 | 17 | Requirements Required emissions |
| FACILITY | 6NYCRR 202-2.1 | 7 | tests. Emission Statements - |
| FACILITY | 6NYCRR 202-2.5 | 8 | Applicability Emission Statements - record keeping |
| FACILITY | 6NYCRR 211.1 | 132 | requirements. General Prohibitions - air pollution |
| FACILITY | 6NYCRR 211.2 | 26 | prohibited General Prohibitions - visible emissions |
| FACILITY | 6NYCRR 215.2 | 9 | limited. Open Fires - Prohibitions |
| FACILITY | 6NYCRR 225-1.2(d) | 27 | Sulfur-in-Fuel Limitation - |
| FACILITY | 6NYCRR 227-1.3(c) | 28 | Distillate Oil Annual Tune-up Requirement |
| FACILITY U-00002 | 6NYCRR 227-1.4(a) 6NYCRR 227-2.5(a) | 29, 30 111 | Opacity Standard Fuel switching option. |
| FACILITY | 6NYCRR 231-2 | 31, 32 | New Source Review in Nonattainment Areas and Ozone Transport |
| U-00001/-/P01 | 6NYCRR 231-2 | 59, 60, 61 | Region New Source Review in Nonattainment Areas and Ozone Transport |
| U-00001/-/P02 | 6NYCRR 231-2 | 66, 67, 68 | Region New Source Review in Nonattainment Areas and Ozone Transport |
| U-00001/-/P03 | 6NYCRR 231-2 | 76, 77, 78 | Region New Source Review in Nonattainment Areas and Ozone Transport |
| U-00001/-/P04 | 6NYCRR 231-2 | 83, 84, 85 | Region New Source Review in Nonattainment Areas and Ozone Transport |
| U-00002/-/P05 | 6NYCRR 231-2 | 113 | Region New Source Review in Nonattainment Areas and Ozone Transport |
| U-00002/-/P06 | 6NYCRR 231-2 | 116 | Region New Source Review in Nonattainment Areas and Ozone Transport |
| U-00003/EP004 | 6NYCRR 231-2 | 128 | Region New Source Review in Nonattainment Areas and Ozone Transport Region |
| FACILITY | 6NYCRR 231-2.4 | 33 | Permit Requirements |
| FACILITY | 6NYCRR 242-1.5 | 133, 134, 135 | CO2 Budget Trading Program - Standard |
| U-00001 | 6NYCRR 242-4 | 137 | requirements CO2 Budget Trading Program - Compliance |



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| | | | certification |
|----------|-----------------|-----|-----------------------|
| U-00001 | 6NYCRR 242-8.5 | 138 | CO2 Budget Trading |
| | | | Program - |
| | | | Recordkeeping and |
| | | | reporting |
| U-00001 | 6NYCRR 251.3(b) | 139 | Emission limits for |
| | | | non-modified sources. |
| FACILITY | 6NYCRR 251.6(f) | 136 | Annual reports. |

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.



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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.

6 NYCRR 201-6.4 (d) (4)

This condition applies to every Title V facility subject to a compliance schedule. It requires that reports, detailing the status of progress on achieving compliance with emission standards, be submitted



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semiannually.

6 NYCRR 201-6.4 (e)

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

6 NYCRR 202-1.1

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

6 NYCRR 202-2.1

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, CAITHNESS LONG ISLAND ENERGY CENTER has been determined to be subject to the following regulations:

40 CFR 60.11

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



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40 CFR 60.12

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

40 CFR 60.13

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

40 CFR 60.14

This regulation defines the term modification and what is and is not considered to be a modification, for 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 60.4

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

40 CFR 60.4205 (c)

This requirement applies to stationary compression ignition IC fire pump engines displacing less than 30 liters/cylinder.

40 CFR 60.4211 (b)

This requirement describes the compliance demonstration options for the owner or operator of a pre-2007 model year stationary CI internal combustion engine or a CI fire pump engine that is manufactured prior to the model years in table 3 to this subpart.

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 (c)

This requirement details the information to be submitted in excess emissions and monitoring systems performance reports which must be submitted at least semi-annually for sources with compliance monitoring systems.

40 CFR 60.8 (d)

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



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40 CFR 63.11195

This regulation states what boilers are not subject to 40 CFR 63 Subpart JJJJJJ.

40 CFR 97.406

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

40 CFR 97.606

This condition provides the general requirements for implementing EPAs Transport Rule (TR) 40 CFR Part 97, Subpart CCCCC; intended to reduce the interstate transport of fine particulate matter and ozone. This particular condition requires facilities to measure and report their emissions of sulfur dioxide (SO2) annually and to hold TR annual SO2 allowances sufficient to cover these emissions. Commonly referred to as a budget trading program, each State has an established 'budget' of emissions that are distributed or sold to facilities, which, in turn, can only emit as much as they hold in allowances.

40 CFR Part 64

The federal Compliance Assurance Monitoring (CAM) rule, 40 CFR Part 64, requires monitoring of control device, capture system, and/or process parameters to provide a reasonable assurance of compliance with emission limitations or standards. It applies to emission <u>units</u> that use a control device to comply with certain standards and limitations and that have potential <u>pre-control device</u> emissions equal to or greater than a major source threshold.

Acid Rain program requirements; stratospheric ozone protection requirements; post-1990 New Source Performance Standards, Emission Guidelines, and National Emission Standards for Hazardous Air Pollutants; and some other limitations are exempt from CAM. However, many of the exempt requirements are subject to less stringent periodic monitoring under 40 CFR Part 70 and 6NYCRR Subpart 201-6.

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 NOx (sulfer dioxide and oxides of nitrogen). Fossil fuel burning electric utility companies are a major source of these contaminants in the US. These sources where regulated in a phased approach. Phase I, which began in 1995, requires 110 of the higher-emitting utility plants in the eastern and Midwest



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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.

40 CFR Part 97, Subpart EEEEE

40 CFR Part 97 Subpart EEEEE the NOx Ozone Season Cross State Air Pollution Rule (CSAPR) is a regional (22 state) cap and trade program designed to reduce NOx emissions during the ozone season (May - September) for large fossil fuel fired electric generating units that have a nameplate capacity of greater than 25 megawatts electrical and produce electricity for sale.

6 NYCRR 201-6.4 (f)

This section describes the potential for certain operational changes to be made by the facility owner or operator without first obtaining a permit modification. Changes made pursuant to this provision must meet all of the criteria described in this section to qualify for consideration as operational flexibility. The Department reserves the right to require the facility owner or operator to obtain a permit modification prior to making any changes at the facility pursuant to this section.

6 NYCRR 201-6.5 (a)

This subdivision states that the Department shall include state enforceable conditions in Title V permits. State enforceable conditions related to regulations developed pursuant to the Climate Leadership and Community Protection Act (CLCPA) and Article 75 of New York State Environmental Conservation Law may be included in future versions of this permit, as applicable.

6 NYCRR 211.1

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

6 NYCRR 225-1.2 (d)

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

6 NYCRR 227-1.3 (c)

This subdivision requires that all stationary combustion installations subject to this



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subpart perform an annual tune-up.

6 NYCRR 227-1.4 (a)

This subdivisions sets the opacity standard for subject stationary combustion installations.

6 NYCRR 227-2.5 (a)

Fuel switching NOx RACT compliance option.

6 NYCRR 231-2.4

The provisions of Subpart 231-2 apply to new or modified major facilities. The contaminants of concern state-wide are nitrogen oxides and volatile organic compounds since New York State is located in the ozone transport region and because there are ozone non-attainment areas within the state. In the New York City metropolitan area, carbon monoxide is also a non-attainment contaminant. In addition, particulate matter less than 10 microns in size (PM-10) is a non-attainment contaminant in Manhattan County.

The permitting requirements for proposed source projects and new major facilities are set forth in section 231-2.4.

6 NYCRR 242-1.5

His regulation requires that the facility hold enough carbon dioxide allowances in their carbon dioxide budget at least equal to the amount of carbon dioxide emitted from the facility each year.

6 NYCRR 242-8.5

This regulation requires the CO₂ authorized account representative to comply with all applicable recordkeeping and reporting requirements in section 242-8.5, the applicable record keeping and reporting requirements under 40 CFR 75.73 and with the certification requirements of section 242-2.1(e) of this Part.

6 NYCRR 251.3 (b)

Emission limits for non-modified sources.

6 NYCRR 251.6 (f)

Recordkeeping and reporting - annual reports.



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6 NYCRR Subpart 231-2

The provisions of Subpart 231-2 apply to new or modified major facilities. The contaminants of concern state-wide are nitrogen oxides and volatile organic compounds since New York State is located in the ozone transport region and because there are ozone non-attainment areas within the state. In addition, particulate matter less than 10 microns in size (PM-10) is a non-attainment contaminant in Manhattan County.

6 NYCRR Subpart 242-4

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

Compliance Certification Summary of monitoring activities at CAITHNESS LONG ISLAND ENERGY CENTER:

| Location Facility/EU/EP/Process/ES | Cond No | Type of Monitoring |
|---------------------------------------|---------|---|
| | | |
| FACILITY | 36 | record keeping/maintenance procedures |
| U-00003 | 121 | record keeping/maintenance procedures |
| U-00003 | 122 | record keeping/maintenance procedures |
| U-00002 | 112 | record keeping/maintenance procedures |
| U-00001 | 53 | record keeping/maintenance procedures |
| U-00001 | 54 | record keeping/maintenance procedures |
| U-00001/EP001 | 109 | monitoring of process or control device parameters as surrogate |
| FACILITY | 44 | record keeping/maintenance procedures |
| FACILITY | 45 | record keeping/maintenance procedures |
| FACILITY | 46 | record keeping/maintenance procedures |
| FACILITY | 21 | monitoring of process or control device parameters |
| | | as surrogate |
| FACILITY | 22 | work practice involving specific operations |
| FACILITY | 23 | work practice involving specific operations |
| U-00001 | 49 | continuous emission monitoring (cem) |
| U-00001 | 50 | monitoring of process or control device parameters as surrogate |
| U-00001 | 51 | work practice involving specific operations |
| U-00001 | 52 | record keeping/maintenance procedures |
| U-00001/-/P01 | 55 | intermittent emission testing |
| U-00001/-/P01 | 56 | continuous emission monitoring (cem) |
| U-00001/-/P01 | 57 | continuous emission monitoring (cem) |
| U-00001/-/P01 | 58 | intermittent emission testing |
| U-00001/-/P02 | 62 | continuous emission monitoring (cem) |
| U-00001/-/P02 | 63 | continuous emission monitoring (cem) |
| U-00001/-/P02 | 64 | intermittent emission testing |
| U-00001/-/P02 | 65 | intermittent emission testing |
| U-00001/-/P03 | 69 | intermittent emission testing |
| U-00001/-/P03 | 70 | continuous emission monitoring (cem) |



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| U-00001/-/P03 | 71 | continuous emission monitoring (cem) |
|---|-----|---|
| U-00001/-/P03 | 72 | continuous emission monitoring (cem) |
| U-00001/-/P03 | 73 | continuous emission monitoring (cem) |
| U-00001/-/P03 | 74 | intermittent emission testing |
| U-00001/-/P03 | 75 | intermittent emission testing |
| U-00001/-/P04 | 79 | intermittent emission testing |
| U-00001/-/P04 | 80 | intermittent emission testing |
| U-00001/-/P04 | 81 | continuous emission monitoring (cem) |
| | | |
| U-00001/-/P04 | 82 | continuous emission monitoring (cem) |
| U-00001/-/P09 | 86 | monitoring of process or control device parameters |
| | | as surrogate |
| U-00001/-/P09 | 87 | monitoring of process or control device parameters |
| | | as surrogate |
| U-00001/-/P09 | 88 | monitoring of process or control device parameters |
| | | as surrogate |
| U-00001/-/P09 | 89 | monitoring of process or control device parameters |
| , | | as surrogate |
| U-00001/-/P09 | 90 | record keeping/maintenance procedures |
| U-00001/-/P09 | 91 | continuous emission monitoring (cem) |
| | | |
| U-00001/-/P09 | 92 | continuous emission monitoring (cem) |
| U-00001/-/P09 | 93 | continuous emission monitoring (cem) |
| U-00001/-/P09 | 94 | continuous emission monitoring (cem) |
| U-00001/-/P09 | 95 | continuous emission monitoring (cem) |
| U-00001/-/P09 | 96 | continuous emission monitoring (cem) |
| U-00001/-/P09 | 97 | continuous emission monitoring (cem) |
| U-00001/-/P09 | 98 | continuous emission monitoring (cem) |
| U-00001/-/P09 | 99 | continuous emission monitoring (cem) |
| U-00001/-/P09 | 100 | continuous emission monitoring (cem) |
| U-00001/-/P09 | 101 | continuous emission monitoring (cem) |
| U-00001/-/P09 | 102 | continuous emission monitoring (cem) |
| U-00001/-/P09 | 103 | continuous emission monitoring (cem) |
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| U-00001/-/P09 | 104 | continuous emission monitoring (cem) |
| U-00001/-/P09 | 105 | continuous emission monitoring (cem) |
| U-00001/-/P09 | 106 | continuous emission monitoring (cem) |
| U-00001/-/P09 | 107 | record keeping/maintenance procedures |
| U-00001/-/P09 | 108 | record keeping/maintenance procedures |
| U-00002 | 110 | work practice involving specific operations |
| U-00002/-/P06 | 114 | work practice involving specific operations |
| U-00002/-/P06 | 115 | work practice involving specific operations |
| U-00002/EP002/P05 | 117 | intermittent emission testing |
| U-00002/EP002/P05 | 118 | intermittent emission testing |
| U-00002/EP002/P06 | 119 | intermittent emission testing |
| U-00002/EP002/P06 | 120 | intermittent emission testing |
| U-00003/EP004 | 123 | work practice involving specific operations |
| U-00003/EP004 | 124 | work practice involving specific operations work practice involving specific operations |
| | | work practice involving specific operations work practice involving specific operations |
| U-00003/EP004 | 125 | |
| U-00003/EP004 | 126 | intermittent emission testing intermittent emission testing |
| U-00003/EP004 | 127 | |
| FACILITY | 5 | record keeping/maintenance procedures |
| FACILITY | 6 | record keeping/maintenance procedures |
| FACILITY | 7 | record keeping/maintenance procedures |
| FACILITY | 27 | work practice involving specific operations |
| FACILITY | 28 | record keeping/maintenance procedures |
| FACILITY | 29 | monitoring of process or control device parameters |
| | | as surrogate |
| FACILITY | 30 | record keeping/maintenance procedures |
| U-00002 | 111 | monitoring of process or control device parameters |
| | | as surrogate |
| FACILITY | 31 | monitoring of process or control device parameters |
| FACIBITI | 31 | |
| FACILITY | 32 | as surrogate |
| LUCITII | 32 | monitoring of process or control device parameters |
| T 00001 / /D01 | F ^ | as surrogate |
| U-00001/-/P01 | 59 | intermittent emission testing |
| U-00001/-/P01 | 60 | continuous emission monitoring (cem) |
| U-00001/-/P01 | 61 | continuous emission monitoring (cem) |
| | | |



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| U-00001/-/P02 | 66 | intermittent emission testing |
|---------------|-----|--|
| U-00001/-/P02 | 67 | continuous emission monitoring (cem) |
| U-00001/-/P02 | 68 | continuous emission monitoring (cem) |
| U-00001/-/P03 | 76 | intermittent emission testing |
| U-00001/-/P03 | 77 | continuous emission monitoring (cem) |
| U-00001/-/P03 | 78 | continuous emission monitoring (cem) |
| U-00001/-/P04 | 83 | intermittent emission testing |
| U-00001/-/P04 | 84 | continuous emission monitoring (cem) |
| U-00001/-/P04 | 85 | continuous emission monitoring (cem) |
| U-00002/-/P05 | 113 | intermittent emission testing |
| U-00002/-/P06 | 116 | intermittent emission testing |
| U-00003/EP004 | 128 | intermittent emission testing |
| FACILITY | 134 | record keeping/maintenance procedures |
| FACILITY | 135 | record keeping/maintenance procedures |
| U-00001 | 137 | record keeping/maintenance procedures |
| U-00001 | 138 | record keeping/maintenance procedures |
| U-00001 | 139 | monitoring of process or control device parameters |
| | | as surrogate |
| FACILITY | 136 | record keeping/maintenance procedures |
| | | |

Basis for Monitoring

6 NYCRR 201-6: Where noted in the permit, the conditions originate from the EPA PSD permit. The USEPA issued a PSD Permit to Caithness in 2006. The Department issued a state facility permit (ASF) to the facility later the same year. During this period the Department did not have PSD delegation or an approved PSD program. As requested by the USEPA the PSD limits were not incorporated into the ASF under 40 CFR 52.21, but rather under 6 NYCRR Part 201-5. When the ASF was upgraded to a Title V permit the citations were upgraded to 6 NYCRR Part 201-6. Compliance monitoring and reporting requirements vary. Conditions under this citation also include limits for startup, shutdown and fuel switching for the combustion turbine. Compliance is reported semiannually. Also, under this citation, the monitoring of ammonia slip from the SCR system is required. The facility must comply with an NH3 emission limit of 5 ppmvd (corrected to 15% O2). Compliance is reported quarterly.

The facility's potential to emit carbon monoxide is limited to 270.9 tons per year under this citation. This is the potential to emit of CO for the facility as permitted under the original Air State Facility Permit. Compliance is reported quarterly.

An annual heat input limit of 2,071,740 MMBtu was put in place of the annual time limit of 4380 hours. This value was determined from the heat input capacity of the duct burner. Thus, this conversion does not represent any increase in emissions from what is currently permitted. Compliance is reported semiannually.

6 NYCRR 225-1.2(d): For Distillate Oil, the facility is regulatory limited to purchasing and burning oil with a maximum of 0.0015 % sulfur by weight. Compliance is based on vendor certifications and compliance is reported on a semi-annual basis. Based on this requirement, the facility is no longer subject to PSD requirements for sulfur dioxide and sulfuric acid mist, as it no



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longer has the potential to emit these contaminants in quantities equal to or exceeding PSD thresholds.

6 NYCRR 227-1.3(c): The facility is required perform annual tune-ups on all permitted stationary combustion installations. The facility must keep records in a log book. Compliance is reported semiannually.

6 NYCRR 227-1.4(a): These requirements apply to all of the permitted stationary combustion installations and associated stacks. The owner or operator of the facility is required to conduct daily checks for visible emissions when firing oil and will report semiannually. If visible emissions are observed on two consecutive days firing oil the owner or operator of the facility must conduct a Method 9 test to determine compliance with a 20% opacity limit. The owner or operator of the facility is required to conduct a Method 9 test annually for each stack and report the results in order to demonstrate compliance with a 20% opacity limit. This applies to all of the permitted stationary combustion installations and associated emission points.

6 NYCRR 227-2.5(a): The facility is subject to the requirements of Reasonably Available Control Technology for Major Facilities of Oxides of Nitrogen (NOx RACT). The owner or operator of the facility is required to monitor the annual average NOx emission rate for the auxiliary boiler. The owner or operator will burn natural gas in the boiler between May 1st and September 30th of each year. The boiler must meet an 0.08 pounds per million btu limit, determined on an annual average basis. Compliance is reported semiannually. For other emission sources at the facility, compliance with the emission limits in the Nonattainment New Source Review conditions will ensure compliance with NOx RACT control requirements.

6 NYCRR Part 231-2: Nonattainment New Source Review applies to this facility. Emission limits for NOx and VOCs are based on previous allowances and purchased offsets. Compliance is reported quarterly or semiannually as required.

6 NYCRR 242-1.5, 242-4 and 242-8.5: The owner or operator of the facility is required to monitor CO2 emissions from the combined cycle combustion turbine (i.e., the combustion turbine and duct burner) pursuant to the CO2 Budget Trading program. The CO2 authorized account representative must report quarterly and submit compliance certification reports for each control period.

6 NYCRR 251.3 (b) and 251.6 (f): The owner or operator of the facility is required to monitor the CO2 emissions from, and heat input to, the combined cycle combustion turbine (i.e., the combustion turbine and duct burner) in order to demonstrate compliance with an emission limit of 180 pounds of CO2 per million Btu of input for each fossil fuel. Compliance is reported quarterly. Additionally, annual reporting using one of the methods in 251.6 (f) is required since compliance with the limit is not demonstrated with a CEMS.



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40 CFR 60.4205 (c) and 60.4211 (b): The owner or operator of the facility is required to maintain records that demonstrate compliance with 40 CFR 60 Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines for its diesel fire pump engine. The records must be made available upon request by a regulatory agency. Note: New York State has not accepted delegation for 40 CFR 60 Subpart IIII.

40 CFR 63.11195: The auxiliary boiler is considered a "gas-fired boiler" and is therefore not subject to 40 CFR 63 Subpart JJJJJJ - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources emission standards restrictions. However, the owner or operator of the facility is required to maintain records that document oil use for the auxiliary boiler in order to demonstrate that the boiler is a "gas-fired boiler". The records must document the time periods that oil is fired and the reasons why oil is fired. The facility must provide notice within 30 days of firing oil for any reasons not included in the exemption. Note: New York State has not accepted delegation for 40 CFR 63 Subpart JJJJJJ.

60 CFR 64: As per the requirements of Compliance Assurance Monitoring (CAM), the owner or operator of the facility is responsible for operating and maintaining the oxidizer catalyst according to the manufacturer's recommendations. The owner or operator of the facility is responsible for continuous temperature monitoring and annual maintenance. Compliance is reported semiannually.

40 CFR 97.406, 97.606 and 97, Subpart EEEEE: The facility, and to the extent applicable, the designated representative of an applicable Cross-State Air Pollution Rule (CSAPR) unit, must comply with the monitoring, reporting and recordkeeping requirements of CSAPR. CEMS monitoring data must be submitted quarterly and all other monitoring data must be submitted semiannually.

The facility is subject to the Provisions of the New Source Performance Standard (NSPS) 40 CFR Part 60, Subparts GG, Da, and Dc. No conditions were included for these requirements as the facility is already subject to stricter requirements for NOx, SO2 and Particulate Matter (PM).



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