

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 6-2260-00024/00007 Renewal Number: 1



11/09/2005

Facility Identification Data

Name: CARTHAGE ENERGY COGEN FACILITY
Address: 701 WESTEND AVE
CARTHAGE, NY 13619

Owner/Firm

Name: CARTHAGE ENERGY LLC
Address: 701 WEST END AVE
CARTHAGE, NY 13619, USA
Owner Classification: Corporation/Partnership

Permit Contacts

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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

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 6-2260-00024/00007 Renewal Number: 1



11/09/2005

Application for renewal of Air Title V Facility.

Attainment Status

CARTHAGE ENERGY COGEN FACILITY is located in the town of WILNA in the county of JEFFERSON.

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

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

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

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

Facility Description

THIS FACILITY PROVIDES ELECTRICITY TO AN ELECTRIC UTILITY AND THERMAL ENERGY TO A NEARBY THERMAL HOST. THE COMBINED CYCLE COGENERATION FACILITY CONSISTS OF A THOMASSEN FRAME 6 GAS TURBINE, A DELTAK HEAT RECOVERY STEAM GENERATOR WITH COEN DUCT BURNERS, AND A SHIN NIPPON STEAM TURBINE. ALSO LOCATED AT THIS FACILITY ARE AN AUXILIARY BOILER, A STARTING DIESEL ENGINE USED FOR STARTING THE GAS TURBINE, AN EMERGENCY DIESEL GENERATOR (EXEMPT EMISSION SOURCE), AN EMERGENCY DIESEL FIRE PUMP (EXEMPT EMISSION SOURCE), A BUILDING HEATING BOILER (EXEMPT EMISSION SOURCE), A NATURAL GAS FIRED SPACE HEATER (EXEMPT EMISSION SOURCE), AND SUPPORTING EQUIPMENT.

Permit Structure and Description of Operations

The Title V permit for CARTHAGE ENERGY COGEN FACILITY is structured in terms of the following hierarchy: facility, emission unit, emission point, emission source and process.



New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 6-2260-00024/00007 Renewal Number: 1

11/09/2005

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.

CARTHAGE ENERGY COGEN FACILITY is defined by the following emission unit(s):
Emission unit U00001 - GAS TURBINE WITH STEAM INJECTION, HEAT RECOVERY STEAM GENERATOR WITH DUCT BURNERS FOR COGENERATION OF ELECTRICITY AND THERMAL ENERGY.

Emission unit U00001 is associated with the following emission points (EP):
00001

It is further defined by the following process(es):

Process: 101 is located at OPERATING FLOOR, Building GENBLDG - NO. 2 DISTILLATE FUEL OIL COMBUSTION IN GAS TURBINE WITHOUT SIMULTANEOUS OPERATION OF DUCT BURNER. FUEL OIL USE IN THE GAS TURBINE AND DUCT BURNER IS LIMITED TO 25 PERCENT OF THE TIME (2,190 HOURS PER YEAR) AND 10,200,000 GALLONS PER YEAR CALCULATED ON A DAILY ROLLING BASIS.

Process: 102 is located at OPERATING FLOOR, Building GENBLDG - NO. 2 DISTILLATE FUEL OIL COMBUSTION IN GAS TURBINE WITH SIMULTANEOUS OPERATION OF DUCT BURNER FIRING NATURAL GAS. FUEL OIL USE IN THE GAS TURBINE AND DUCT BURNER IS LIMITED TO 25 PERCENT OF THE TIME (2,190 HOURS PER YEAR) AND 10,200,000 GALLONS PER YEAR CALCULATED ON A DAILY ROLLING BASIS.

Process: 103 is located at OPERATING FLOOR, Building GENBLDG - NATURAL GAS COMBUSTION IN GAS TURBINE WITHOUT SIMULTANEOUS OPERATION OF DUCT BURNER.

Process: 104 is located at OPERATING FLOOR, Building GENBLDG - NATURAL GAS COMBUSTION IN GAS TURBINE AND DUCT BURNER SIMULTANEOUSLY.

Process: 105 is located at OPERATING FLOOR, Building GENBLDG - NO. 2 DISTILLATE FUEL OIL COMBUSTION IN GAS TURBINE AND DUCT BURNER SIMULTANEOUSLY. FUEL OIL USE IN



New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 6-2260-00024/00007 Renewal Number: 1

11/09/2005

THE GAS TURBINE AND DUCT BURNER IS LIMITED TO 25 PERCENT OF THE TIME (2,190 HOURS PER YEAR) AND 10,200,000 GALLONS PER YEAR, CALCULATED ON A DAILY ROLLING BASIS.

Process: 106 is located at OPERATING FLOOR, Building GENBLDG - SIMULTANEOUS COMBUSTION OF NATURAL GAS AND NO. 2 DISTILLATE FUEL OIL IN THE GAS TURBINE WITHOUT SIMULTANEOUS OPERATION OF THE DUCT BURNER. FUEL OIL USE IN THE GAS TURBINE AND DUCT BURNER IS LIMITED TO 25 PERCENT OF THE TIME (2,190 HOURS PER YEAR) AND 10,200,000 GALLONS PER YEAR, CALCULATED ON A DAILY ROLLING BASIS.

Process: 107 is located at OPERATING FLOOR, Building GENBLDG - SIMULTANEOUS COMBUSTION OF NATURAL GAS AND NO. 2 DISTILLATE FUEL OIL IN THE GAS TURBINE WITH SIMULTANEOUS OPERATION OF THE DUCT BURNER FIRING NATURAL GAS. FUEL OIL USE IN THE GAS TURBINE AND DUCT BURNER IS LIMITED TO 25 PERCENT OF THE TIME (2,190 HOURS PER YEAR) AND 10,200,000 GALLONS PER YEAR, CALCULATED ON A DAILY ROLLING BASIS.

Emission unit U00002 - GAS TURBINE STARTING DIESEL ENGINE.

Emission unit U00002 is associated with the following emission points (EP):
00002

It is further defined by the following process(es):

Process: 201 is located at OPERATING FLOOR, Building GENBLDG - DISTILLATE FUEL OIL COMBUSTION IN GAS TURBINE STARTING DIESEL ENGINE. OPERATION OF THIS ENGINE IS TO BE LIMITED TO 150 HOURS PER YEAR. THIS ENGINE SHALL NOT OPERATE SIMULTANEOUSLY WITH THE GAS TURBINE EXCEPT DURING PERIODS OF GAS TURBINE STARTUP, SHUTDOWN OR MALFUNCTION.

Title V/Major Source Status

CARTHAGE ENERGY COGEN FACILITY is subject to Title V requirements. This determination is based on the following information:

This facility exceeds the Title V major source threshold of 100 tons per year for NOx and CO.

Program Applicability

The following chart summarizes the applicability of CARTHAGE ENERGY COGEN FACILITY 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

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 6-2260-00024/00007 Renewal Number: 1

11/09/2005



NSPS	YES
TITLE IV	YES
TITLE V	YES
TITLE VI	NO
RACT	YES
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 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),

New York State Department of Environmental Conservation



Permit Review Report

Permit ID: 6-2260-00024/00007 Renewal Number: 1

11/09/2005

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
9999	NONCLASSIFIABLE ESTABLISHMENTS

SCC Codes

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

SCC Code	Description
2-02-001-01	INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION ENGINE - DISTILLATE

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 6-2260-00024/00007 Renewal Number: 1



11/09/2005

	OIL (DIESEL)
	Turbine
2-02-001-03	INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION ENGINE - DISTILLATE OIL (DIESEL)
	Turbine: Cogeneration
2-02-002-01	INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION ENGINE - NATURAL GAS
	Turbine
2-02-002-03	INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION ENGINE - NATURAL GAS
	Turbine: Cogeneration
2-02-004-01	INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION LARGE BORE ENGINE Diesel

Facility Emissions Summary

In the following table, the CAS No. or Chemical Abstract Series 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
007440-36-0	ANTIMONY (HAP)	> 0	but < 10 tpy
007440-38-2	ARSENIC (HAP)	> 0	but < 10 tpy
007440-41-7	BERYLLIUM (HAP)	> 0	but < 10 tpy
007440-43-9	CADMIUM (HAP)	> 0	but < 10 tpy
000630-08-0	CARBON MONOXIDE	>= 100 tpy	but < 250 tpy
007440-47-3	CHROMIUM (HAP)	> 0	but < 10 tpy
007440-48-4	COBALT (HAP)	> 0	but < 10 tpy
0NY100-00-0	HAP	> 0	but < 2.5 tpy
007439-92-1	LEAD (HAP)	> 0	but < 10 tpy
007439-96-5	MANGANESE (HAP)	> 0	but < 10 tpy

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 6-2260-00024/00007 Renewal Number: 1

11/09/2005



007439-97-6	MERCURY (HAP)	> 0 but < 10 tpy
007440-02-0	NICKEL METAL AND INSOLUBLE COMPOUNDS (HAP)	> 0 but < 10 tpy
0NY210-00-0	OXIDES OF NITROGEN	>= 250 tpy
0NY075-00-0	PARTICULATES	>= 40 tpy but < 50 tpy
0NY075-00-5	PM-10	>= 40 tpy but < 50 tpy
007782-49-2	SELENIUM (HAP)	> 0 but < 10 tpy
007446-09-5	SULFUR DIOXIDE	>= 50 tpy but < 100 tpy
0NY998-00-0	VOC	>= 50 tpy but < 100 tpy

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

Item A: Emergency Defense - 6NYCRR Part 201-1.5

An emergency constitutes an affirmative defense to an action brought for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

(a) The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

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

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

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

Item B: Public Access to Recordkeeping for Title V Facilities - 6NYCRR Part 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 6NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 6-2260-00024/00007 Renewal Number: 1



11/09/2005

Item C: Timely Application for the Renewal of Title V Permits - 6 NYCRR Part 201-6.3(a)(4)

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

Item D: Certification by a Responsible Official - 6 NYCRR Part 201-6.3(d)(12)

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

Item E: Requirement to Comply With All Conditions - 6 NYCRR Part 201-6.5(a)(2)

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

Item F: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR Part 201-6.5(a)(3)

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

Item G: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR Part 201-6.5(a)(5)

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

Item H: Property Rights - 6 NYCRR Part 201-6.5(a)(6)

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

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 6-2260-00024/00007 Renewal Number: 1



11/09/2005

Item I: Severability - 6 NYCRR Part 201-6.5(a)(9)

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

Item J: Permit Shield - 6 NYCRR Part 201-6.5(g)

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

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

Item K: Reopening for Cause - 6 NYCRR Part 201-6.5(i)

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

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 6-2260-00024/00007 Renewal Number: 1



11/09/2005

- i. If additional applicable requirements under the Act become applicable where this permit's remaining term is three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 201-6.7 and Part 621.
- ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.
- iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

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

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

Item L:

Permit Exclusion - ECL 19-0305

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 6-2260-00024/00007 Renewal Number: 1



11/09/2005

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	Short Description	Condition
FACILITY	ECL 19-0301	Powers and Duties of the Department with respect to air pollution control	95

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 6-2260-00024/00007 Renewal Number: 1

11/09/2005



FACILITY	40CFR 52-A.21	Prevention of Significant Deterioration	38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59
U-00001	40CFR 52-A.21	Prevention of Significant Deterioration	72, 73, 74, 75
U-00001/-/101	40CFR 52-A.21	Prevention of Significant Deterioration	81, 82, 83, 84
U-00001/-/103	40CFR 52-A.21	Prevention of Significant Deterioration	85, 86, 87, 88, 89, 90
U-00001/-/104	40CFR 52-A.21	Prevention of Significant Deterioration	91, 92
U-00002	40CFR 52-A.21	Prevention of Significant Deterioration	93
U-00002/-/201	40CFR 52-A.21	Prevention of Significant Deterioration	94
U-00001	40CFR 60-A.13	General provisions - Monitoring requirements	76
FACILITY	40CFR 60-A.4	General provisions - Address	60
FACILITY	40CFR 60-A.7 (b)	Notification and Recordkeeping	61
FACILITY	40CFR 60-A.7 (c)	Notification and Recordkeeping	62
FACILITY	40CFR 60-A.7 (d)	Notification and Recordkeeping	63
FACILITY	40CFR 60-A.7 (f)	Notification and Recordkeeping	64
FACILITY	40CFR 60-A.9	General provisions - Availability of information	65
U-00001	40CFR 60-Dc.48c (g)	Reporting and Recordkeeping Requirements.	77
FACILITY	40CFR 60-Dc.48c (i)	Reporting and Recordkeeping Requirements.	66
U-00001	40CFR 60-GG.334 (b)	Monitoring of Operations: CEMS	78
U-00001	40CFR 60-GG.334 (h) (3)	Allowance not to monitor sulfur or nitrogen for natural gas	79
FACILITY	40CFR 68	Chemical accident prevention provisions	21
U-00001	40CFR 72-A.6 (a) (3) (vi)	IPP no longer exempt.	80
FACILITY	40CFR 82	Protection of Stratospheric Ozone	67
FACILITY	40CFR 82-F	Protection of Stratospheric Ozone - recycling and emissions reduction	22
FACILITY	6NYCRR 200.6	Acceptable ambient air quality.	1
FACILITY	6NYCRR 200.7	Maintenance of equipment.	10
FACILITY	6NYCRR 201-1.4	Unavoidable noncompliance	96

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 6-2260-00024/00007 Renewal Number: 1

11/09/2005



		and violations	
FACILITY	6NYCRR 201-1.7	Recycling and Salvage	11
FACILITY	6NYCRR 201-1.8	Prohibition of reintroduction of collected contaminants to the air	12
FACILITY	6NYCRR 201-3.2(a)	Exempt Activities - Proof of eligibility	13
FACILITY	6NYCRR 201-3.3(a)	Trivial Activities - proof of eligibility	14
FACILITY	6NYCRR 201-6	Title V Permits and the Associated Permit Conditions	23, 68, 69
FACILITY	6NYCRR 201-6.5(a) (4)	General conditions	15
FACILITY	6NYCRR 201-6.5(a) (7)	General conditions	
Fees 2			
FACILITY	6NYCRR 201-6.5(a) (8)	General conditions	16
FACILITY	6NYCRR 201-6.5(c)	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring	3
FACILITY	6NYCRR 201-6.5(c) (2)	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring	4
FACILITY	6NYCRR 201-6.5(c) (3) (ii)	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring	5
FACILITY	6NYCRR 201-6.5(d) (5)	Compliance schedules	17
FACILITY	6NYCRR 201-6.5(e)	Compliance Certification	6
FACILITY	6NYCRR 201-6.5(f) (6)	Off Permit Changes	18
FACILITY	6NYCRR 202-1.1	Required emissions tests.	19
FACILITY	6NYCRR 202-2.1	Emission Statements - Applicability	7
FACILITY	6NYCRR 202-2.5	Emission Statements - record keeping requirements.	8
FACILITY	6NYCRR 204-2.1	Authorization and Responsibilities of the NOx Authorized Account Representative	24
FACILITY	6NYCRR 204-4.1	Compliance Certification Report	25, 26, 27
FACILITY	6NYCRR 204-7.1	Submission of NOx Allowance Transfers	28
FACILITY	6NYCRR 204-8.1	General Requirements	29, 30, 31
FACILITY	6NYCRR 204-8.2	Initial Certification and Recertification Procedures	32, 33
FACILITY	6NYCRR 204-8.3	Out of Control Periods	34
FACILITY	6NYCRR 204-8.4	Notifications	35
FACILITY	6NYCRR 211.2	General Prohibitions - air pollution prohibited.	97
FACILITY	6NYCRR 211.3	General Prohibitions - visible emissions limited	20
FACILITY	6NYCRR 215	Open Fires	9
FACILITY	6NYCRR 217-3.3	Exceptions.	98
U-00001	6NYCRR 227.2(b) (1)	Particulate emissions.	71
FACILITY	6NYCRR 227-2.1	Applicability.	36

New York State Department of Environmental Conservation



Permit Review Report

Permit ID: 6-2260-00024/00007 Renewal Number: 1

11/09/2005

FACILITY	6NYCRR 227-2.6(b)	CEMS requirements	37
U-00001	6NYCRR 227-2.6(b)(5)	Alternative CEMs requirements (substituting Title IV Part 75 monitors).	70
FACILITY	6NYCRR 237-1.4(a)	Generators equal to or greater than 25 MWe	99
FACILITY	6NYCRR 237-1.6(a)	Standard permit requirements	100
FACILITY	6NYCRR 237-1.6(c)	Nitrogen oxides requirements	101
FACILITY	6NYCRR 237-1.6(e)	Recordkeeping and reporting requirements	102
FACILITY	6NYCRR 237-1.6(f)	Liability	103
FACILITY	6NYCRR 237-1.6(g)	Effect on other authorities	104
FACILITY	6NYCRR 237-2	NOx Authorized account representative for NOx budget sources	105
FACILITY	6NYCRR 237-4.1	Compliance certification report.	106
FACILITY	6NYCRR 237-7.1	Submission of NOx allowance transfers	107
FACILITY	6NYCRR 237-8	MONITORING AND REPORTING	108
FACILITY	6NYCRR 238-1.4	Applicability	109
FACILITY	6NYCRR 238-1.6(a)	Permit Requirements	110
FACILITY	6NYCRR 238-1.6(c)	Sulfur Dioxide requirements	111
FACILITY	6NYCRR 238-1.6(e)	Recordkeeping and Reporting Requirements	112
FACILITY	6NYCRR 238-1.6(f)	Liability	
	113		
FACILITY	6NYCRR 238-1.6(g)	Effect on Other Authorities	114
FACILITY	6NYCRR 238-2.1	Authorization/responsibilities of the authorized account representative	115
FACILITY	6NYCRR 238-4.1	Compliance certification report	116
FACILITY	6NYCRR 238-7.1	Submission of SO2 allowance transfers	117
FACILITY	6NYCRR 238-8	Monitoring and Reporting	118

Applicability Discussion:

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

ECL 19-301.

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.

6NYCRR Part 200-.6

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

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 6-2260-00024/00007 Renewal Number: 1



11/09/2005

6NYCRR Part 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

6NYCRR Part 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.

6NYCRR Part 201-1.7

Requires the recycle and salvage of collected air contaminants where practical

6NYCRR Part 201-1.8

Prohibits the reintroduction of collected air contaminants to the outside air

6NYCRR Part 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.

6NYCRR Part 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.

6NYCRR Part 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,



New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 6-2260-00024/00007 Renewal Number: 1

11/09/2005

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.

6NYCRR Part 201-6.5(c)

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

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

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

6NYCRR Part 201-6.5(c)(3)(ii)

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

6NYCRR Part 201-6.5(e)

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

6NYCRR Part 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.

6NYCRR Part 202-2.1

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

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 6-2260-00024/00007 Renewal Number: 1



11/09/2005

6NYCRR Part 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.

6NYCRR Part 211-.2

This regulation prohibits any emissions of air contaminants to the outdoor atmosphere which may be detrimental to human, plant or animal life or to property, or which unreasonably interferes with the comfortable enjoyment of life or property regardless of the existence of any specific air quality standard or emission limit.

6 NYCRR Part 211.3

This condition requires that the opacity (i.e., the degree to which emissions other than water reduce the transmission of light) of the emissions from any air contamination source be less than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent.

6 NYCRR Part 215

Prohibits open fires at industrial and commercial sites.

40 CFR Part 68.

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

40 CFR Part 82, Subpart F

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

Facility Specific Requirements

In addition to Title V, CARTHAGE ENERGY COGEN FACILITY has been determined to be subject to the following regulations:

40CFR 52-A.21

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 6-2260-00024/00007 Renewal Number: 1

11/09/2005



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) .

40CFR 60-A.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.

40CFR 60-A.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 Enforcement and Compliance Assurance.

40CFR 60-A.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.

40CFR 60-A.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.

40CFR 60-A.7 (d)

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

40CFR 60-A.7 (f)

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

40CFR 60-A.9

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

40CFR 60-Dc.48c (g)

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

40CFR 60-Dc.48c (i)

This regulation requires the source owner or operator to retain all records for a minimum of two years for compliance with the NSPS. This does not supercede any requirement that is more stringent, including the Title V requirement to maintain records for for a minimum of 5 years.

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 6-2260-00024/00007 Renewal Number: 1



11/09/2005

40CFR 60-GG.334 (b)

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

40CFR 60-GG.334 (h) (3)

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

40CFR 72-A.6 (a) (3) (vi)

Was an exempt IPP under 40 CFR 72.6(b)(6) but, at any time after the later of November 15, 1990 or the date the facility commences commercial operation, fails to meet the definition of independent power production facility.

(b)(6) An independent power production facility that:

- (i) Has, as of November 15, 1990, one or more qualifying power purchase commitments to sell at least 15 percent of its total planned net output capacity; and
- (ii) Consists of one or more units designated by the owner or operator with total installed net output capacity not exceeding 130 percent of its total planned net output capacity. If the emission rates of the units are not the same, the Administrator may exercise discretion to designate which units are exempt.

40CFR 82

The purpose of this regulation is to implement standards on the protection of stratospheric ozone through the control of chloroflourocarbons (CFCs).

6NYCRR 201-6.5 (c) (3) (ii)

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

6NYCRR 204-2.1

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

6NYCRR 204-4.1

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

6NYCRR 204-7.1

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

6NYCRR 204-8.1

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

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 6-2260-00024/00007 Renewal Number: 1

11/09/2005



6NYCRR 204-8.2

This condition covers the procedures for initially certifying and recertifying the monitoring systems of the unit meet the requirements of the NOx Budget Program

6NYCRR 204-8.3

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

6NYCRR 204-8.4

This condition lists the addresses where monitoring plans and their modifications, compliance certifications, recertifications, quarterly QA/QC reports and petitions for alternative monitoring shall be sent.

6NYCRR 217-3.3

This condition provides the exceptions to Part 217-3.2(b).

6NYCRR 227 .2 (b) (1)

This regulation is from the 1972 version of Part 227 and still remains as part of New York's SIP. The rule establishes a particulate limit of 0.10 lbs/mmBtu based on a 2 hour average emission for any oil fired stationary combustion installation.

6NYCRR 227-2.1

This condition notes that a facility is subject to the reasonably available control technology (RACT) for oxides of nitrogen (NOx).

6NYCRR 227-2.6 (b)

Any owner or operator of a combustion source subject to reasonably available control technology (RACT) requirements, under this subdivision, for NOx and either is required or opts to employ a continuous emissions monitoring system (CEMS) must:

- 1) Submit a CEMS monitoring plan for approval by the Department,
- 2) Submit a CEMS certification protocol,
- 3) Meet CEMS monitoring requirements as detailed in this paragraph of this subdivision, and
- 4) Meet CEMS recordkeeping and reporting requirements as detailed in this paragraph of this subdivision.

6NYCRR 227-2.6 (b) (5)

This condition requires the permittee to have NOx monitors that comply with Part 75 specifications.

6NYCRR 237-1.4 (a)

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

6NYCRR 237-1.6 (a)

This condition requires the applicant to submit a NOx budget application for a permit and to operate in compliance with that permit.

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 6-2260-00024/00007 Renewal Number: 1



11/09/2005

6NYCRR 237-1.6 (c)

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

6NYCRR 237-1.6 (e)

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

6NYCRR 237-1.6 (f)

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

6NYCRR 237-1.6 (g)

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

6NYCRR 237-2

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

6NYCRR 237-4.1

This item specifies the requirements of the compliance certification report.

6NYCRR 237-7.1

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

6NYCRR 237-8

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

6NYCRR 238-1.4

This citation identifies the facility as having one or more SO2 budget units as defined by Federal Law, and as such is subject to the requirements of 6 NYCRR 238

6NYCRR 238-1.6 (a)

This condition requires the applicant to submit a SO2 budget application for a permit and to operate in compliance with that permit.

6NYCRR 238-1.6 (c)

This Item requires the owners and operators of each SO2 budget source and each SO2 budget unit to



New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 6-2260-00024/00007 Renewal Number: 1

11/09/2005

hold SO2 allowances available for compliance deductions under NYCRR 238-6.5; and how such allowances will be managed.

6NYCRR 238-1.6 (e)

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

6NYCRR 238-1.6 (f)

This subdivision outlines the liability of an affected source.

6NYCRR 238-1.6 (g)

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

6NYCRR 238-2.1

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

6NYCRR 238-4.1

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

6NYCRR 238-7.1

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

6NYCRR 238-8

This section states that the facility to comply with Part 238, must meet the QA/QC requirements of Part 75.

Compliance Certification

Summary of monitoring activities at CARTHAGE ENERGY COGEN FACILITY:

Location Facility/EU/EP/Process/ES	Type of Monitoring	Cond No.
FACILITY	work practice involving specific operations	38
FACILITY	record keeping/maintenance procedures	39
FACILITY	intermittent emission testing	40
FACILITY	intermittent emission testing	41
FACILITY	intermittent emission testing	42
FACILITY	intermittent emission testing	43
FACILITY	work practice involving specific operations	44
FACILITY	intermittent emission testing	45
FACILITY	continuous emission monitoring (cem)	46
FACILITY	continuous emission monitoring (cem)	47
FACILITY	continuous emission monitoring (cem)	48
FACILITY	continuous emission monitoring (cem)	49
FACILITY	intermittent emission testing	50
FACILITY	intermittent emission testing	51
FACILITY	continuous emission monitoring (cem)	52



New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 6-2260-00024/00007 Renewal Number: 1

11/09/2005

FACILITY	continuous emission monitoring (cem)	53
FACILITY	continuous emission monitoring (cem)	54
FACILITY	intermittent emission testing	55
FACILITY	work practice involving specific operations	56
FACILITY	intermittent emission testing	57
FACILITY	record keeping/maintenance procedures	58
FACILITY	continuous emission monitoring (cem)	59
U-00001	record keeping/maintenance procedures	72
U-00001	record keeping/maintenance procedures	73
U-00001	record keeping/maintenance procedures	74
U-00001	record keeping/maintenance procedures	75
U-00001/-/101	continuous emission monitoring (cem)	81
U-00001/-/101	continuous emission monitoring (cem)	82
U-00001/-/101	continuous emission monitoring (cem)	83
U-00001/-/101	continuous emission monitoring (cem)	84
U-00001/-/103	continuous emission monitoring (cem)	85
U-00001/-/103	continuous emission monitoring (cem)	86
U-00001/-/103	continuous emission monitoring (cem)	87
U-00001/-/103	continuous emission monitoring (cem)	88
U-00001/-/103	continuous emission monitoring (cem)	89
U-00001/-/103	continuous emission monitoring (cem)	90
U-00001/-/104	continuous emission monitoring (cem)	91
U-00001/-/104	continuous emission monitoring (cem)	92
U-00002	record keeping/maintenance procedures	93
U-00002/-/201	work practice involving specific operations	94
U-00001	record keeping/maintenance procedures	77
FACILITY	record keeping/maintenance procedures	66
U-00001	record keeping/maintenance procedures	79
FACILITY	record keeping/maintenance procedures	5
FACILITY	record keeping/maintenance procedures	6
FACILITY	record keeping/maintenance procedures	7
FACILITY	record keeping/maintenance procedures	27
FACILITY	record keeping/maintenance procedures	33
FACILITY	record keeping/maintenance procedures	35
U-00001	intermittent emission testing	71
FACILITY	record keeping/maintenance procedures	101
FACILITY	record keeping/maintenance procedures	106
FACILITY	record keeping/maintenance procedures	108
FACILITY	record keeping/maintenance procedures	111
FACILITY	record keeping/maintenance procedures	112
FACILITY	record keeping/maintenance procedures	116
FACILITY	record keeping/maintenance procedures	118

Basis for Monitoring

BASIS FOR MONITORING

Condition 29 - This condition requires the facility to submit an annual emissions statement for the purposes of billing regulatory fees.

Condition 33 - The facility must sample the fuel sulfur using a method approved by the commissioner.

Condition 34 - The facility must submit to the commissioner a fuel analysis and maintain those fuel analysis records for 3 years. This condition also describes the required information regarding the fuel analysis.

Condition 36 - The facility must be accessible to NYSDEC personnel for routine inspections during

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 6-2260-00024/00007 Renewal Number: 1

11/09/2005



reasonable business hours.

Condition 37 - For determining mass emission rate compliance, the facility must monitor and record the ambient temperature.

Condition 38 - To comply with PSD 40 CFR 52.21, the facility must limit fuel sulfur to 0.20% by weight.

Condition 39 - The facility must have a summary of emission limits and operating limitations in the control room visible by the operators.

Condition 40 - To comply with PSD 40 CFR 52.21, the facility must limit fuel sulfur to 0.20% by weight.

Condition 47 - For compliance with 40 CFR 60, Subpart Dc, the facility must maintain all records required under 40 CFR 60.48c(i) for a period of 5 years.

Condition 51 - This condition provides the NO_x RACT limitation for the turbine with or without the duct burner while firing gas.

Condition 52 - This condition provides the NO_x RACT limitation for the turbine with and without the duct burner while firing oil.

Condition 55 - To comply with PSD 40 CFR 52.21, the facility must maintain fuel oil records for the turbine and the duct burner.

Condition 56 - To comply with PSD 40 CFR 52.21, the facility must submit quarterly CEM reports.

Condition 57 - To comply with PSD 40 CFR 52.21, the facility must fire gas or distillate No. 2 oil in the turbine and duct burner.

Condition 58 - To comply with PSD 40 CFR 52.21, the emission limits apply at loads of operation except startup, shutdown, and malfunction.

Condition 59 - To comply with PSD 40 CFR 52.21, the facility must continuously calculate the mass emission rate of NO_x and CO.

Condition 60 - To comply with PSD 40 CFR 52.21, the facility must not operate below a graph specified load except during startup or shutdown.

Condition 61 - To comply with PSD 40 CFR 52.21, the facility use of the fuel oil in the turbine and duct burner while fired alone or simultaneously with gas is limited to 2190 hours per year.

Condition 62 - To comply with PSD 40 CFR 52.21, the facility use of the fuel oil in the turbine and duct burner is limited to 10.2 million gallons per year.

Condition 63 - To comply with PSD 40 CFR 52.21, the facility must monitor and record the amount of fuel burned in the turbine.

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 6-2260-00024/00007 Renewal Number: 1



11/09/2005

Condition 66 - To comply with 40 CFR 60.48c(g), the facility must record and maintain records of the fuel fired each day.

Condition 67 - To comply with 40 CFR 60.334(a), the must maintain the water to fuel ratio to between 0.9 and 1.3 lb of steam per lb of fuel.

Condition 70 - To comply with PSD 40 CFR 52.21, must limit PM emissions to 27.8 lb/hr.

Condition 71 - To comply with PSD 40 CFR 52.21, the facility must continuously calibrate, operate, and maintain the NOx CEM and limit the mass emissions to 125.3 lb/hr.

Condition 72 - To comply with PSD 40 CFR 52.21, the facility must continuously calibrate, operate, and maintain the CO CEM and limit the concentration to 9.0 ppmvd.

Condition 73 - To comply with PSD 40 CFR 52.21, the facility must continuously calibrate, operate, and maintain the NOx CEM and limit the concentration to 65.0 ppmvd.

Condition 74 - To comply with PSD 40 CFR 52.21, the facility use of the fuel oil in the turbine and duct burner is limited to 2190 hours per year.

Condition 75 - To comply with PSD 40 CFR 52.21, the facility must limit VOC emissions to 5.0 lb/hr.

Condition 76 - To comply with PSD 40 CFR 52.21, the facility must limit PM-10 emissions to 27.8 lb/hr.

Condition 77 - To comply with PSD 40 CFR 52.21, the facility must limit VOC emissions to .009 lb/mmbtu.

Condition 78 - To comply with PSD 40 CFR 52.21, the facility must continuously calibrate, operate, and maintain the CO CEM and limit the mass emissions to 11.0 lb/hr.

Condition 79 - To comply with PSD 40 CFR 52.21, the facility must limit PM-10 emissions to 0.04 lb/mmbtu.

Condition 80 - To comply with PSD 40 CFR 52.21, the facility must limit PM emissions to 0.04 lb/mmbtu. This condition supersedes the requirements of Part 227.2(b)(1).

Condition 81 - To comply with 40 CFR 60.334(b)(1), the facility must limit fuel sulfur to 0.20% by weight.

Condition 82 - To comply with PSD 40 CFR 52.21, the facility must limit PM-10 emissions to 27.8 lb/hr.

Condition 83 - To comply with PSD 40 CFR 52.21, the facility must limit VOC emissions to .029 lb/mmbtu.

Condition 84 - To comply with PSD 40 CFR 52.21, the facility must continuously calibrate, operate, and

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 6-2260-00024/00007 Renewal Number: 1

11/09/2005



maintain the CO CEM and limit the mass emissions to 28.3 lb/hr.

Condition 85 - To comply with PSD 40 CFR 52.21, the facility must limit PM emissions to 0.10 lb/mmbtu.

Condition 86 - To comply with PSD 40 CFR 52.21, the facility must limit PM-10 emissions to 0.10 lb/mmbtu.

Condition 87 - To comply with PSD 40 CFR 52.21, the facility must continuously calibrate, operate, and maintain the NO_x CEM and limit the mass emissions to 136.1 lb/hr.

Condition 88 - To comply with PSD 40 CFR 52.21, the facility must continuously calibrate, operate, and maintain the NO_x CEM and limit the concentration to 65.0 ppmvd.

Condition 89 - To comply with PSD 40 CFR 52.21, the facility use of the fuel oil in the turbine and duct burner is limited to 2190 hours per year.

Condition 90 - To comply with PSD 40 CFR 52.21, the facility must limit VOC emissions to 15.8 lb/hr.

Condition 91 - To comply with PSD 40 CFR 52.21, the facility must continuously calibrate, operate, and maintain the CO CEM and limit the concentration to 22.0 ppmvd.

Condition 92 - To comply with PSD 40 CFR 52.21, the facility must limit PM emissions to 27.8 lb/hr.

Condition 93 - To comply with 40 CFR 60.334(b)(1), the facility must limit fuel sulfur to 0.20% by weight.

Condition 94 - To comply with PSD 40 CFR 52.21, the facility must limit PM emissions to 3.0 lb/hr.

Condition 95 - To comply with PSD 40 CFR 52.21, the facility must limit PM emissions to 0.005 lb/mmbtu.

Condition 96 - To comply with PSD 40 CFR 52.21, the facility must limit VOC emissions to 5.0 lb/hr.

Condition 97 - To comply with PSD 40 CFR 52.21, the facility must limit PM-10 emissions to 3.0 lb/hr.

Condition 98 - To comply with PSD 40 CFR 52.21, the facility must continuously calibrate, operate, and maintain the CO CEM and limit the mass emissions to 11.0 lb/hr.

Condition 99 - To comply with PSD 40 CFR 52.21, the facility must continuously calibrate, operate, and maintain the NO_x CEM and limit the mass emissions to 76.6 lb/hr.

Condition 100 - To comply with PSD 40 CFR 52.21, the facility must continuously calibrate, operate, and maintain the CO CEM and limit the concentration to 10.0 ppmvd.

Condition 101 - To comply with PSD 40 CFR 52.21, the facility must continuously calibrate, operate, and

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 6-2260-00024/00007 Renewal Number: 1

11/09/2005



maintain the NO_x CEM and limit the concentration to 42.0 ppmvd.

Condition 102 - To comply with PSD 40 CFR 52.21, the facility must limit VOC emissions to .009 lb/mmbtu.

Condition 103 - To comply with PSD 40 CFR 52.21, the facility must limit PM-10 emissions to 0.005 lb/mmbtu.

Condition 104 - To comply with 40 CFR 60.334(b)(2), the facility must measure nitrogen and sulfur content of the gas fired in accordance with the EPA approved custom fuel monitoring plan.

Condition 105 - To comply with PSD 40 CFR 52.21, the facility must continuously calibrate, operate, and maintain the NO_x CEM and limit the concentration to 42.0 ppmvd.

Condition 106 - To comply with PSD 40 CFR 52.21, the facility must continuously calibrate, operate, and maintain the CO CEM and limit the mass emissions to 23.0 lb/hr.

Condition 107 - To comply with PSD 40 CFR 52.21, the facility must limit VOC emissions to 15.8 lb/hr.

Condition 108 - To comply with PSD 40 CFR 52.21, the facility must limit PM emissions to 0.005 lb/mmbtu.

Condition 109 - To comply with PSD 40 CFR 52.21, the facility must limit PM-10 emissions to 0.005 lb/mmbtu.

Condition 110 - To comply with PSD 40 CFR 52.21, the facility must limit PM emissions to 3.0 lb/hr.

Condition 111 - To comply with PSD 40 CFR 52.21, the facility must limit PM-10 emissions to 3.0 lb/hr.

Condition 112 - To comply with PSD 40 CFR 52.21, the facility must continuously calibrate, operate, and maintain the CO CEM and limit the mass emissions to 28.3 lb/hr.

Condition 113 - To comply with PSD 40 CFR 52.21, the facility must continuously calibrate, operate, and maintain the NO_x CEM and limit the mass emissions to 87.4 lb/hr.

Condition 114 - To comply with PSD 40 CFR 52.21, the facility must limit VOC emissions to .029 lb/mmbtu.

Condition 115 - To comply with 40 CFR 60.334(b)(2), the facility must measure sulfur content of the gas fired in accordance with the EPA approved custom fuel monitoring plan and limit sulfur to 0.1 % by weight.

Condition 116 - To comply with PSD 40 CFR 52.21, the facility must continuously calibrate, operate, and maintain the NO_x CEM and limit the mass emissions to 136.1 lb/hr.

Condition 117 - To comply with PSD 40 CFR 52.21, the facility must continuously calibrate, operate, and

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 6-2260-00024/00007 Renewal Number: 1



11/09/2005

maintain the NO_x CEM and limit the concentration to 65.0 ppmvd.

Condition 118 - To comply with PSD 40 CFR 52.21, the facility must continuously calibrate, operate, and maintain the CO CEM and limit the concentration to 22.0 ppmvd.

Condition 119 - To comply with PSD 40 CFR 52.21, the facility use of the fuel oil in the turbine and duct burner is limited to 2190 hours per year.

Condition 120 - To comply with PSD 40 CFR 52.21, the facility must limit PM-10 emissions to 0.10 lb/mmbtu.

Condition 121 - To comply with PSD 40 CFR 52.21, the facility must limit PM emissions to 0.10 lb/mmbtu.

Condition 122 - To comply with PSD 40 CFR 52.21, the facility must limit VOC emissions to 15.8 lb/hr.

Condition 123 - To comply with PSD 40 CFR 52.21, the facility must limit VOC emissions to .029 lb/mmbtu.

Condition 124 - To comply with PSD 40 CFR 52.21, the facility must limit PM emissions to 27.8 lb/hr.

Condition 125 - To comply with PSD 40 CFR 52.21, the facility must limit PM-10 emissions to 27.8 lb/hr.

Condition 126 - To comply with PSD 40 CFR 52.21, the facility must continuously calibrate, operate, and maintain the CO CEM and limit the mass emissions to 28.3 lb/hr.

Condition 127 - To comply with PSD 40 CFR 52.21, the facility must limit VOC emissions to 15.8 lb/hr.

Condition 128 - To comply with PSD 40 CFR 52.21, the facility must limit PM emissions to 0.04 lb/mmbtu.

Condition 129 - To comply with PSD 40 CFR 52.21, the facility must limit PM-10 emissions to 27.8 lb/hr.

Condition 130 - To comply with PSD 40 CFR 52.21, the facility must continuously calibrate, operate, and maintain the NO_x CEM and limit the mass emissions to 125.3 lb/hr.

Condition 131 - To comply with PSD 40 CFR 52.21, the facility must continuously calibrate, operate, and maintain the CO CEM and limit the mass emissions to 11.0 lb/hr.

Condition 132 - To comply with PSD 40 CFR 52.21, the facility must continuously calibrate, operate, and maintain the CO CEM and limit the concentration to 9.0 ppmvd.

Condition 133 - To comply with PSD 40 CFR 52.21, the facility must continuously calibrate, operate, and maintain the NO_x CEM and limit the concentration to 65.0 ppmvd.

Condition 134 - To comply with PSD 40 CFR 52.21, the facility use of the fuel oil in the turbine and duct

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 6-2260-00024/00007 Renewal Number: 1

11/09/2005



burner is limited to 2190 hours per year.

Condition 135 - To comply with PSD 40 CFR 52.21, the facility must limit VOC emissions to .009 lb/mmbtu.

Condition 136 - To comply with PSD 40 CFR 52.21, the facility must limit PM-10 emissions to 0.04 lb/mmbtu.

Condition 137 - To comply with PSD 40 CFR 52.21, the facility must limit PM emissions to 27.8 lb/hr.

Condition 138 - To comply with PSD 40 CFR 52.21, the facility must limit VOC emissions to .029 lb/mmbtu.

Condition 139 - To comply with PSD 40 CFR 52.21, the facility must limit PM-10 emissions to 0.10 lb/mmbtu.

Condition 140 - To comply with PSD 40 CFR 52.21, the facility must continuously calibrate, operate, and maintain the CO CEM and limit the mass emissions to 28.3 lb/hr.

Condition 141 - To comply with PSD 40 CFR 52.21, the facility must continuously calibrate, operate, and maintain the NOx CEM and limit the mass emissions to 136.1 lb/hr.

Condition 142 - To comply with PSD 40 CFR 52.21, the facility must continuously calibrate, operate, and maintain the CO CEM and limit the concentration to 22.0 ppmvd.

Condition 143 - To comply with PSD 40 CFR 52.21, the facility must continuously calibrate, operate, and maintain the NOx CEM and limit the concentration to 65.0 ppmvd.

Condition 144 - To comply with PSD 40 CFR 52.21, the facility use of the fuel oil in the turbine and duct burner is limited to 2190 hours per year.

Condition 145 - To comply with PSD 40 CFR 52.21, the facility must limit PM-10 emissions to 0.10 lb/mmbtu.

Condition 146 - To comply with PSD 40 CFR 52.21, the facility must limit VOC emissions to 15.8 lb/hr.

Condition 147 - To comply with PSD 40 CFR 52.21, the facility must limit PM emissions to 27.8 lb/hr.

Condition 148 - To comply with PSD 40 CFR 52.21, the facility must limit PM-10 emissions to 27.8 lb/hr.

Condition 149 - Under Part 227-1.3(a), the facility must limit opacity to 20% or less based on a six minute average.

Condition 150 - Under Part 227-1.3(a)(1), the facility must limit opacity to 40% or less based on an instantaneous reading.

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 6-2260-00024/00007 Renewal Number: 1

11/09/2005



Condition 153 - To comply with PSD 40 CFR 52.21 and meet the NAAQS, the starting diesel engine and the turbine may not operate simultaneously except during periods of startup, shutdown and malfunction.

Condition 155 - To comply with PSD 40 CFR 52.21 and meet the NAAQS, the starting diesel engine operation is limited to 150 hours per year.

Condition 157 - Under Part 227-1.3(a), the facility must limit opacity to 20% or less based on a six minute average.

Condition 158 - Under Part 227-1.3(a)(1), the facility must limit opacity to 40% or less based on an instantaneous reading.

Condition 1-3 - This condition specifies the requirements of the semi-annual certifications.

Condition 1-4 - This condition specifies the requirements of the annual certifications.

Condition 1-8 - This condition requires a compliance certification report from the Authorized Account Representative for each source subject to Part 204.

Condition 1-14 - This condition specifies the requirements the facility must under take prior to acceptance of the certification tests.

Condition 1-16 - This condition specifies the address to send all required Part 204 reports.

Condition 1-19 - This condition provides a PM limit of .10 lb/mmbtu on oil fired combustion units.