

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 7-3126-00127/00011 Renewal Number: 1



11/18/2004

Facility Identification Data

Name: CARR STREET GENERATING STATION
Address: 64 CARR ST
EAST SYRACUSE, NY 13057

Owner/Firm

Name: CARR STREET GENERATING STATION LP
Address: 64 CARR ST
EAST SYRACUSE, NY 13057, USA
Owner Classification: Corporation/Partnership

Permit Contacts

Division of Environmental Permits:

Name: JOANNE L MARCH
Address: DIVISION OF ENVIRONMENTAL PERMITS
615 ERIE BLVD WEST
SYRACUSE, NY 13204-2400

Division of Air Resources:

Name: THOMAS A ELTER
Address: 615 ERIE BLVD WEST
SYRACUSE, NY 13204

Air Permitting Facility Owner Contact:

Name: CARR STREET GENERATING STATION LP
Address: 64 CARR ST
EAST SYRACUSE, NY 13057
Phone: 3154324443

Permit Description

Introduction

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

Summary Description of Proposed Project

Application for renewal of Air Title V Facility.

Attainment Status



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CARR STREET GENERATING STATION is located in the town of DEWITT in the county of ONONDAGA.

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* ATTAINMENT)	TRANSPORT REGION (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

EXISTING COGENERATION FACILITY APPLYING FOR A RENEW OF A TITLE V PERMIT. THE FACILITY, LOCATED IN EAST SYRACUSE, NEW YORK GENERATES STEAM AND ELECTRIC POWER USING TWO STATIONARY COMBUSTION GAS TURBINES AND HEAT RECOVERY STEAM GENERATORS (HRSGS), AND ONE STEAM TURBINE. NO SUPPLEMENTARY FIRING IS EMPLOYED IN THE HRSGS.

Permit Structure and Description of Operations

The Title V permit for CARR STREET GENERATING STATION is structured in terms of the following hierarchy: facility, emission unit, emission point, emission source and process.

A facility is defined as all emission sources located at one or more adjacent or contiguous properties owned or operated by the same person or persons under common control. The facility is subdivided into one or more emission units (EU). Emission units are defined as any part or activity of a stationary facility that emits or has the potential to emit any federal or state regulated air pollutant. An emission unit is represented as a grouping of processes (defined as any activity involving one or more emission sources (ES) that emits or has the potential to emit any federal or state regulated air pollutant). An emission source is defined as any apparatus,

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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.

CARR STREET GENERATING STATION is defined by the following emission unit(s):

Emission unit 1TURBS - TWO IDENTICAL GE LM-6000 GAS TURBINES/HRSGS RATED AT 40 MEGAWATTS EACH. THE HRSGS DO NOT EMPLOY SUPPLEMENTAL FIRING. THE GAS TURBINE PRIMARY FUEL IS NATURAL GAS AND DISTILLATE FUEL OIL IS USED AS BACKUP FUEL.

Emission unit 1TURBS is associated with the following emission points (EP):

00001, 00002

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

Process: TBG is located at GROUND FLOOR, Building 1 - TWO IDENTICAL GAS TURBINES, EACH FIRING NATURAL GAS. EMISSION LIMITS APPLY TO EACH TURBINE INDIVIDUALLY.

Process: TBO is located at GROUND FLOOR, Building 1 - TWO IDENTICAL GAS TURBINES, EACH FIRING DISTILLATE FUEL OIL. EMISSION LIMITS APPLY TO EACH TURBINE INDIVIDUALLY.

Title V/Major Source Status

CARR STREET GENERATING STATION is subject to Title V requirements. This determination is based on the following information:

The facility is a major source of NO_x and CO.

Program Applicability

The following chart summarizes the applicability of CARR STREET GENERATING STATION with regards to the principal air pollution regulatory programs:

Regulatory Program	Applicability
PSD	YES
NSR (non-attainment)	NO

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NESHAP (40 CFR Part 61)	NO
NESHAP (MACT - 40 CFR Part 63)	NO
NSPS	YES
TITLE IV	NO
TITLE V	YES
TITLE VI	NO
RACT	NO
SIP	YES

NOTES:

PSD Prevention of Significant Deterioration (40 CFR 52) - requirements which pertain to major stationary sources located in areas which are in attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

NSR New Source Review (6 NYCRR Part 231) - requirements which pertain to major stationary sources located in areas which are in non-attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

NESHAP National Emission Standards for Hazardous Air Pollutants (40 CFR 61) - contaminant and source specific emission standards established prior to the Clean Air Act Amendments of 1990 (CAAA) which were developed for 9 air contaminants (inorganic arsenic, radon, benzene, vinyl chloride, asbestos, mercury, beryllium, radionuclides, and volatile HAP's)

MACT Maximum Achievable Control Technology (40 CFR 63) - contaminant and source specific emission standards established by the 1990 CAAA. Under Section 112 of the CAAA, the US EPA is required to develop and promulgate emissions standards for new and existing sources. The standards are to be based on the best demonstrated control technology and practices in the regulated industry, otherwise known as MACT. The corresponding regulations apply to specific source types and contaminants.

NSPS New Source Performance Standards (40 CFR 60) - standards of performance for specific 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.

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Title VI Stratospheric Ozone Protection (40 CFR 82, Subparts A thru G) - federal requirements that apply to sources which use a minimum quantity of CFC's (chlorofluorocarbons), HCFC's (hydrofluorocarbons) or other ozone depleting substances or regulated substitute substances in equipment such as air conditioners, refrigeration equipment or motor vehicle air conditioners or appliances.

RACT Reasonably Available Control Technology (6 NYCRR Parts 212.10, 226, 227-2, 228, 229, 230, 232, 233, 234, 235, 236) - the lowest emission limit that a specific source is capable of meeting by application of control technology that is reasonably available, considering technological and economic feasibility. RACT is a control strategy used to limit emissions of VOC's and NOx for the purpose of attaining the air quality standard for ozone. The term as it is used in the above table refers to those state air pollution control regulations which specifically regulate VOC and NOx emissions.

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

Compliance Status

Facility is in compliance with all requirements

SIC Codes

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

SIC Code	Description
4911	ELECTRIC SERVICES

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.

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SCC Code	Description
2-02-001-03	INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION ENGINE - DISTILLATE OIL (DIESEL) Turbine: Cogeneration
2-02-002-03	INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION ENGINE - NATURAL GAS Turbine: Cogeneration

Facility Emissions Summary

In the following table, the CAS No. or Chemical Abstract 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
007664-41-7	AMMONIA	>= 50 tpy but < 100 tpy	
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	
000050-00-0	FORMALDEHYDE (HAP)	> 0 but < 10 tpy	
0NY100-00-0	HAP	>= 2.5 tpy but < 10 tpy	
007439-92-1	LEAD (HAP)	> 0 but < 10 tpy	
007439-96-5	MANGANESE (HAP)	> 0 but < 10 tpy	
007439-97-6	MERCURY (HAP)	> 0 but < 10 tpy	
000091-20-3	NAPHTHALENE (HAP)	> 0 but < 10 tpy	
007440-02-0	NICKEL METAL AND INSOLUBLE COMPOUNDS (HAP)	> 0 but < 10 tpy	
0NY210-00-0	OXIDES OF NITROGEN	>= 100 tpy but < 250 tpy	
0NY075-00-0	PARTICULATES	>= 100 tpy but < 250 tpy	

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0NY075-00-5	PM-10	>= 100 tpy but < 250 tpy
130498-29-2	POLYCYCLIC AROMATIC HYDROCARBONS (HAP)	> 0 but < 10 tpy
007782-49-2	SELENIUM (HAP)	> 0 but < 10 tpy
007446-09-5	SULFUR DIOXIDE	>= 100 tpy but < 250 tpy
000108-88-3	TOLUENE (HAP)	> 0 but < 10 tpy
0NY998-00-0	VOC	>= 50 tpy but < 100 tpy

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

Item A: **Sealing - 6NYCRR Part 200.5**

The Commissioner may seal an air contamination source to prevent its operation if compliance with 6 NYCRR Chapter III is not met within the time provided by an order of the Commissioner issued in the case of the violation. Sealing means labeling or tagging a source to notify any person that operation of the source is prohibited, and also includes physical means of preventing the operation of an air contamination source without resulting in destruction of any equipment associated with such source, and includes, but is not limited to, bolting, chaining or wiring shut control panels, apertures or conduits associated with such source.

No person shall operate any air contamination source sealed by the Commissioner in accordance with this section unless a modification has been made which enables such source to comply with all requirements applicable to such modification.

Unless authorized by the Commissioner, no person shall remove or alter any seal affixed to any contamination source in accordance with this section.

Item B: **Acceptable Ambient Air Quality - 6NYCRR Part 200.6**

Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

Item C: **Maintenance of Equipment - 6NYCRR Part 200.7**

Any person who owns or operates an air contamination source which is equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer's specifications, required to operate such device effectively.

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Item D: Unpermitted Emission Sources - 6NYCRR Part 201-1.2

If an existing emission source was subject to the permitting requirements of 6NYCRR Part 201 at the time of construction or modification, and the owner and/or operator failed to apply for a permit for such emission source then the following provisions apply:

- (a) The owner and/or operator must apply for a permit for such emission source or register the facility in accordance with the provisions of Part 201.
- (b) The emission source or facility is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing sources or facilities.

Item E: 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

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contained in any applicable requirement.

Item F: Recycling and Salvage - 6NYCRR Part 201-1.7

Where practical, any person who owns or operates an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of 6 NYCRR.

Item G: Prohibition of Reintroduction of Collected Contaminants to the Air - 6NYCRR Part 201-1.8

No person shall unnecessarily remove, handle, or cause to be handled, collected air contaminants from an air cleaning device for recycling, salvage or disposal in a manner that would reintroduce them to the outdoor atmosphere.

Item H: 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.

Item I: Proof of Eligibility for Sources Defined as Exempt Activities - 6 NYCRR Part 201-3.2(a)

The owner and/or operator of an emission source or unit that is eligible to be exempt, may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source 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 which contains emission sources or units subject to 6 NYCRR Subpart 201-3, 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.

Item J: Proof of Eligibility for Sources Defined as Trivial Activities - 6 NYCRR Part 201-3.3(a)

The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source 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

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which contains emission sources or units subject to 6 NYCRR Subpart 201-3, 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.

Item K: 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 L: 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 M: 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 N: 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 O: Providing Information Upon Request - 6 NYCRR Part 201-6.5(a)(4)

The permittee shall furnish to the Department, within a reasonable time, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. The permittee shall also, on request, furnish the Department with

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copies of records required to be kept by the permit. Where information is claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

Item P: Cessation or Reduction of Permitted Activity Not a Defense - 6NYCRR 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 Q: 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.

Item R: Fees - 6 NYCRR Part 201-6.5(a)(7)

The owner and/or operator of a stationary source shall pay fees to the department consistent with the fee schedule authorized by 6 NYCRR Subpart 482-2.

Item S: Right to Inspect - 6 NYCRR Part 201-6.5(a)(8)

Upon presentation of credentials and other documents, as may be required by law, the permittee shall allow the Department or an authorized representative to perform the following:

- i. Enter upon the permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
- ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- iii. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
- iv. As authorized by the Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

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

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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 U: Progress Reports and Compliance Schedules - 6 NYCRR Part 201-6.5(d)(5)

Progress reports consistent with an applicable schedule of compliance must be submitted at least semiannually on a calendar year basis, or at a more frequent period if specified in the applicable requirement or by the Department elsewhere in this permit. These reports shall be submitted to the Department within 30 days after the end of a reporting period. Such progress reports shall contain the following:

- i. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and
- ii. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

Item V: Off Permit Changes - 6 NYCRR Part 201-6.5(f)(6)

No permit revision will be required for operating changes that contravene an express permit term, provided that such changes would not violate applicable requirements as defined under this Part or contravene federally enforceable monitoring (including test methods), recordkeeping, reporting, or compliance certification permit terms and conditions. Such changes may be made without requiring a permit revision, if the changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions) provided that the facility provides the Administrator and the Department with written notification in advance of the proposed changes within a minimum of 7 days as required by 6 NYCRR §201-6.5(f)(6).

Item W: 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

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

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

- i. If additional applicable requirements under the Act become applicable where this permit's remaining term is three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 201-6.7 and Part 621.
- ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

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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 Y: Required Emission Tests - 6 NYCRR Part 202-1.1

An acceptable report of measured emissions shall be submitted, as may be required by the Commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation. Failure to submit a report acceptable to the Commissioner within the time stated shall be sufficient reason for the Commissioner to suspend or deny an operating permit. Notification and acceptable procedures are specified in 6NYCRR Part 202-1.

Item Z: Visible Emissions Limited - 6 NYCRR Part 211.3

Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, no person shall cause or allow any air contamination source to emit any material having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

Item AA: Open Fires - 6 NYCRR Part 215

No person shall burn, cause, suffer, allow or permit the burning in an open fire of garbage, rubbish for salvage, or rubbish generated by industrial or commercial activities.

Item BB: Permit Exclusion - ECL 19-0305

The issuance of this permit by the Department and the receipt thereof

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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 CC: 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.

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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	60
FACILITY	40CFR 52-A.21	Prevention of Significant Deterioration	8
1-TURBS	40CFR 52-A.21	Prevention of Significant Deterioration	25, 26, 27, 28, 29, 30, 31
1-TURBS/-/TBG	40CFR 52-A.21	Prevention of Significant Deterioration	39, 40, 41, 42
1-TURBS/-/TBO	40CFR 52-A.21	Prevention of Significant Deterioration	48, 49, 50, 51, 52, 53, 54, 55, 56, 57
1-TURBS	40CFR 60-A.13	General provisions - Monitoring requirements	32
FACILITY	40CFR 60-GG	Stationary gas turbines over 10 million Btu per hour	9
1-TURBS	40CFR 60-GG.332(f)	Exemption from Section 332(a) of this Subpart.	33
1-TURBS	40CFR 60-GG.334	Monitoring of Operations for Turbines	34, 35
1-TURBS/-/TBG	40CFR 60-GG.334(a)	Monitoring of Operations for Turbines Employing Water Injection to Control NOx	43, 44
1-TURBS/-/TBO	40CFR 60-GG.334(a)	Monitoring of Operations for Turbines Employing Water Injection to Control NOx	58, 59
1-TURBS/-/TBG	40CFR 60-GG.334(b)(2)	Non-bulk Storage Sulfur Monitoring Requirements	45
1-TURBS	40CFR 60-GG.334(c)(1)	Excess Emission Reports	36
FACILITY	40CFR 68	Chemical accident prevention provisions	10, 11
FACILITY	40CFR 82-F	Protection of Stratospheric Ozone - recycling and emissions reduction	12
FACILITY	6NYCRR 201-1.4	Unavoidable noncompliance and violations	61
1-TURBS	6NYCRR 201-1.4(a)	Unavoidable noncompliance and violations - maintenance and/or startup/shutdown	15
FACILITY	6NYCRR 201-6	Title V Permits and the Associated Permit Conditions	1, 13, 14
FACILITY	6NYCRR 201-6.5(c)	Permit conditions for	2

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FACILITY	6NYCRR 201-6.5 (c) (2)	Recordkeeping and Reporting of Compliance Monitoring	3
FACILITY	6NYCRR 201-6.5 (c) (3) (ii)	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring	4
FACILITY	6NYCRR 201-6.5 (e)	Compliance Certification	5
FACILITY	6NYCRR 202-2.1	Emission Statements - Applicability	6
FACILITY	6NYCRR 202-2.5	Emission Statements - record keeping requirements.	7
1-TURBS	6NYCRR 204-1.6	Standard Requirements	16
1-TURBS	6NYCRR 204-2.1	Authorization and Responsibilities of the NOx Authorized Account Representative	17
1-TURBS	6NYCRR 204-4.1	Compliance Certification Report	18
1-TURBS	6NYCRR 204-7.1	Submission of NOx Allowance Transfers	19
1-TURBS	6NYCRR 204-8.1	General Requirements	20, 21
1-TURBS	6NYCRR 204-8.2	Initial Certification and Recertification Procedures	22
1-TURBS	6NYCRR 204-8.3	Out of Control Periods	23
FACILITY	6NYCRR 211.2	General Prohibitions - air pollution prohibited.	62
1-TURBS/-/TBG	6NYCRR 212.4 (a)	General Process Emission Sources - emissions from new sources and/or modifications	37, 38
1-TURBS/-/TBO	6NYCRR 212.4 (a)	General Process Emission Sources - emissions from new sources and/or modifications	46, 47
1-TURBS	6NYCRR 227-1.3	Smoke Emission Limitations.	24

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 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

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from a necessary scheduled equipment maintenance, start-up, shutdown, malfunction or upset in the event that these are unavoidable.

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, 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(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 202-2.1

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

6NYCRR Part 202-2.5

This rule specifies that each facility required to submit an emission statement must



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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.

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, CARR STREET GENERATING STATION has been determined to be subject to the following regulations:

40CFR 52-A.21

In this permit, the citation 40CFR 52-A.21 is used when an emission limit is imposed that keeps a project out of PSD status.

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-GG

Subpart GG is applicable to the gas turbines. Permit conditions for construction are more stringent than the NSPS.

40CFR 60-GG.332 (f)

This regulation allows gas turbines using water or steam injection to control NOx to be exempt from



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section 332.a when ice fog is deemed a traffic hazard.

40CFR 60-GG.334

NSPS regulations allow the use of Part 75 CEMs for NOx monitoring.

40CFR 60-GG.334 (a)

This regulation requires the owner or operator of any stationary gas turbine subject to the provisions of 40CFR60 Subpart GG that is using water injection to control NOx emissions to install and operate a continuous monitoring system to monitor and record fuel consumption and the ratio of water to fuel fired in the turbine. EPA can waive the requirement to monitor steam to fuel if emissions are monitored with a CEM.

40CFR 60-GG.334 (b) (2)

This regulation requires the owner or operator of a gas turbine which is supplied its fuel without intermediate bulk storage to determine and record the sulfur content and nitrogen content of fuel being fired in the turbine daily. The owners, operators or fuel vendors may develop custom schedules for determination of these values. These custom schedules must be approved by the Administrator before they can be used to determine compliance with this requirement

40CFR 60-GG.334 (c) (1)

This regulation requires the owner or operator of a gas turbine to report any excess emissions of oxides of nitrogen (NOx) on a semi-annual basis/

6NYCRR 201-1.4 (a)

All activities involving equipment maintenance or start-up/shutdown that may result in a violation of an emission standard need to be recorded and a written report must be submitted to the department. The report should describe why the violation was unavoidable and include the time, frequency and duration of the maintenance and/or start-up/shutdown activities and the identification of air contaminants, and the estimated emission rates. Sources which are subject to a continuous monitoring and quarterly reporting requirement are exempt from the above.

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 204-1.6

This condition requires the designated representative of the permittee to make submissions for the NOx Budget Program. The Program is designed to mitigate the interstate transport of ground level ozone and nitrogen oxides, a ground level ozone precursor.

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



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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.

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 212.4 (a)

Emissions of ammonia are regulated pursuant to this rule.

6NYCRR 227-1.3

This regulation imposes an opacity limit of 20%.

Compliance Certification

Summary of monitoring activities at CARR STREET GENERATING STATION:

Location Facility/EU/EP/Process/ES	Type of Monitoring	Cond No.
FACILITY	work practice involving specific operations	8
1-TURBS	record keeping/maintenance procedures	25
1-TURBS	record keeping/maintenance procedures	26
1-TURBS	record keeping/maintenance procedures	27
1-TURBS	record keeping/maintenance procedures	28
1-TURBS	record keeping/maintenance procedures	29
1-TURBS	record keeping/maintenance procedures	30
1-TURBS	record keeping/maintenance procedures	31
1-TURBS/-/TBG	continuous emission monitoring (cem)	39
1-TURBS/-/TBG	continuous emission monitoring (cem)	40
1-TURBS/-/TBG	continuous emission monitoring (cem)	41
1-TURBS/-/TBG	continuous emission monitoring (cem)	42
1-TURBS/-/TBO	continuous emission monitoring (cem)	48
1-TURBS/-/TBO	intermittent emission testing	49
1-TURBS/-/TBO	intermittent emission testing	50
1-TURBS/-/TBO	intermittent emission testing	51
1-TURBS/-/TBO	continuous emission monitoring (cem)	52
1-TURBS/-/TBO	monitoring of process or control device	53



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	parameters as surrogate	
1-TURBS/-/TBO	intermittent emission testing	54
1-TURBS/-/TBO	work practice involving specific operations	55
1-TURBS/-/TBO	continuous emission monitoring (cem)	56
1-TURBS/-/TBO	continuous emission monitoring (cem)	57
1-TURBS/-/TBG	record keeping/maintenance procedures	43
1-TURBS/-/TBG	record keeping/maintenance procedures	44
1-TURBS/-/TBO	record keeping/maintenance procedures	58
1-TURBS/-/TBO	record keeping/maintenance procedures	59
1-TURBS/-/TBG	record keeping/maintenance procedures	45
1-TURBS	record keeping/maintenance procedures	36
FACILITY	record keeping/maintenance procedures	11
1-TURBS	record keeping/maintenance procedures	15
FACILITY	record keeping/maintenance procedures	4
FACILITY	record keeping/maintenance procedures	5
FACILITY	record keeping/maintenance procedures	6
1-TURBS	record keeping/maintenance procedures	16
1-TURBS	record keeping/maintenance procedures	22
1-TURBS/-/TBG	intermittent emission testing	37
1-TURBS/-/TBG	intermittent emission testing	38
1-TURBS/-/TBO	intermittent emission testing	46
1-TURBS/-/TBO	intermittent emission testing	47
1-TURBS	intermittent emission testing	24

Basis for Monitoring

We are monitoring NOx and CO emissions with a CEM to assess compliance with permit limits, NOx budget, acid rain, Part 237 and Part 238.

We are requiring the monitoring of ambient temperature, because CO emissions are a function of ambient temperature.

We are monitoring the sulfur content of oil because there's a limit on sulfur content of oil.

We are testing for ammonia emissions because there is an ammonia slip limit.

Stack gas volumetric flow is required to be calculated. Stack flow is used to compute mass emissions of CO and NOx.

Opacity is required to be monitored only upon request of the DEC. Why not more frequent? Because periods of any opacity are unlikely. While high NOx emissions can cause opacity (such as at General Chemical's Solvay facility), emissions of NOx from Carr Street are too low to cause opacity. Additionally, stationary gas turbines operate at 300% excess air, which causes potential opacity problems to be diluted.

CO2 is required to be monitored under the Acid Rain Program.

We are requiring natural gas consumption to be measured. This helps compute NOx mass emissions.

Emissions of PM and PM10 are required to be tested upon request from DEC or EPA. We are not requiring more frequent testing because the devices are low emitters of particulate matter.

We are requiring electrical output to be monitored. It is required to be monitored under Part 75. There

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is also a load restriction on oil (the turbines cannot operate below 90% load on oil).

We are requiring the owner or operator to monitor the amount of oil consumed because there is an annual limit.