



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 4-3814-00029/00024
Effective Date: 04/19/2011 Expiration Date: 04/18/2016

Permit Type: Title IV (Phase II Acid Rain)
Permit ID: 4-3814-00029/00025
Effective Date: 04/19/2011 Expiration Date: 04/18/2016

Permit Issued To: CCI RENSSELAER LLC
811 MAIN STREET SUITE 3500
HOUSTON, TX 77002

Facility: RENSSELAER COGEN FACILITY
39 RIVERSIDE AVE
RENSSELAER, NY 12144

Contact: HARRY H BRAND
RENSSELAER COGEN
39 RIVERSIDE AVE
RENSSELAER, NY 12144
(518) 465-1657

Description:
Rensselaer Cogeneration, LLC is a cogeneration facility consisting of one gas turbine with supplemental duct burners firing natural gas as the primary fuel and #2 fuel oil for backup. Selective catalytic reduction with ammonia injection is used to control NOx emissions from the combined gas turbine and duct burner exhaust. This Title V and Title IV permit renewal includes conditions that originated in the NYSDEC Certificate to Construct and Operate for the facility. These conditions limit the fuel oil sulfur content, heat input rate and emission rates of NOx and CO such that the facility's potential emissions of SO2, NOx and CO were determined to be less than the Prevention of Significant Deterioration of Air Quality (PSD, 40 CFR 52 A.21(j)) applicability threshold when the facility was constructed in 1992-93.

New York State Department of Environmental Conservation
Facility DEC ID: 4381400029



By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, the General Conditions specified and any Special Conditions included as part of this permit.

Permit Administrator: NANCY M BAKER
 NYSDEC
 1130 N WESTCOTT RD
 SCHENECTADY, NY 12306-2014

Authorized Signature: _____ Date: ____ / ____ / ____



Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

The permittee expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the compliance permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in any compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

Item B: Permittee's Contractors to Comply with Permit

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

Item C: Permittee Responsible for Obtaining Other Required Permits

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

Item D: No Right to Trespass or Interfere with Riparian Rights

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.



LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions

- Facility Inspection by the Department
- Relationship of this Permit to Other Department Orders and Determinations
 - Applications for permit renewals, modifications and transfers
 - Permit modifications, suspensions or revocations by the Department
 - Permit modifications, suspensions or revocations by the Department

Facility Level

- Submission of application for permit modification or renewal-REGION 4 HEADQUARTERS



DEC GENERAL CONDITIONS

****** General Provisions ******

**For the purpose of your Title V permit, the following section contains
state-only enforceable terms and conditions.**

GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department

Applicable State Requirement: ECL 19-0305

Item 1.1:

The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

Item 1.2:

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

Item 1.3:

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

Condition 2: Relationship of this Permit to Other Department Orders and Determinations

Applicable State Requirement: ECL 3-0301 (2) (m)

Item 2.1:

Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

Condition 3: Applications for permit renewals, modifications and transfers

Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:

The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

Item 3.2:

The permittee must submit a renewal application at least 180 days before expiration of permits for Title V Facility Permits, or at least 30 days before expiration of permits for State Facility Permits.

Item 3.3:

Permits are transferrable with the approval of the department unless specifically prohibited by the statute, regulation or another permit condition. Applications for permit transfer should be submitted to the Department for review and approval.



Condition 4: Permit modifications, suspensions or revocations by the Department
Applicable State Requirement: 6 NYCRR 621.13

Item 4.1:

The Department reserves the right to modify, suspend, or revoke this permit in accordance with 6NYCRR Part 621. The grounds for modification, suspension or revocation include:

- a) materially false or inaccurate statements in the permit application or supporting papers;
- b) failure by the permittee to comply with any terms or conditions of the permit;
- c) exceeding the scope of the project as described in the permit application;
- d) newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
- e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

Condition 5: Permit modifications, suspensions or revocations by the Department
Applicable State Requirement: 6 NYCRR 621.13

Item 5.1:

The Department reserves the right to modify, suspend, or revoke this permit in accordance with 6NYCRR Part 621. The grounds for modification, suspension or revocation include:

- a) materially false or inaccurate statements in the permit application or supporting papers;
- b) failure by the permittee to comply with any terms or conditions of the permit;
- c) exceeding the scope of the project as described in the permit application;
- d) newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
- e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

****** Facility Level ******

Condition 6: Submission of application for permit modification or renewal-REGION 4 HEADQUARTERS
Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 6.1:

Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 4 Headquarters
Division of Environmental Permits
1130 North Westcott Rd.
Schenectady, NY 12306-2014
(518) 357-2069

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: CCI RENSSELAER LLC
811 MAIN STREET SUITE 3500
HOUSTON, TX 77002

Facility: RENSSELAER COGEN FACILITY
39 RIVERSIDE AVE
RENSSELAER, NY 12144

Authorized Activity By Standard Industrial Classification Code:
4911 - ELECTRIC SERVICES

Permit Effective Date: 04/19/2011

Permit Expiration Date: 04/18/2016



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 1 6 NYCRR 200.6: Acceptable Ambient Air Quality
- 2 6 NYCRR 201-6.5 (a) (7): Fees
- 3 6 NYCRR 201-6.5 (c): Recordkeeping and reporting of compliance monitoring
- 4 6 NYCRR 201-6.5 (c) (2): Monitoring, Related Recordkeeping, and Reporting Requirements.
- 5 6 NYCRR 201-6.5 (c) (3) (ii): Compliance Certification
- 6 6 NYCRR 201-6.5 (e): Compliance Certification
- 7 6 NYCRR 202-2.1: Compliance Certification
- 8 6 NYCRR 202-2.5: Recordkeeping requirements
- 9 6 NYCRR 215.2: Open Fires - Prohibitions
- 10 6 NYCRR 200.7: Maintenance of Equipment
- 11 6 NYCRR 201-1.7: Recycling and Salvage
- 12 6 NYCRR 201-1.8: Prohibition of Reintroduction of Collected Contaminants to the air
- 13 6 NYCRR 201-3.2 (a): Exempt Sources - Proof of Eligibility
- 14 6 NYCRR 201-3.3 (a): Trivial Sources - Proof of Eligibility
- 15 6 NYCRR 201-6.5 (a) (4): Standard Requirement - Provide Information
- 16 6 NYCRR 201-6.5 (a) (8): General Condition - Right to Inspect
- 17 6 NYCRR 201-6.5 (d) (5): Standard Requirements - Progress Reports
- 18 6 NYCRR 201-6.5 (f) (6): Off Permit Changes
- 19 6 NYCRR 202-1.1: Required Emissions Tests
- 20 40 CFR Part 68: Accidental release provisions.
- 21 40 CFR 82, Subpart F: Recycling and Emissions Reduction
- 22 6 NYCRR Subpart 201-6: Emission Unit Definition
- 23 6 NYCRR 201-6.5: Compliance Certification
- 24 6 NYCRR 201-6.5: Compliance Certification
- 25 6 NYCRR 201-6.5: Compliance Certification
- 26 6 NYCRR 201-6.5: Compliance Certification
- 27 6 NYCRR 201-6.5: Compliance Certification
- 28 6 NYCRR 201-6.5: Compliance Certification
- 29 6 NYCRR 201-6.5: Compliance Certification
- 30 6 NYCRR 201-6.5: Compliance Certification
- 31 6 NYCRR 201-6.5: Compliance Certification
- 32 6 NYCRR 201-6.5: Compliance Certification
- 33 6 NYCRR 201-6.5: Compliance Certification
- 34 6 NYCRR 201-6.5: Compliance Certification
- 35 6 NYCRR 201-6.5: Compliance Certification
- 36 6 NYCRR 201-6.5: Compliance Certification
- 37 6 NYCRR 201-6.5: Compliance Certification
- 38 6 NYCRR 201-6.5: Compliance Certification
- 39 6 NYCRR 201-6.5: Compliance Certification
- 40 6 NYCRR 201-6.5: Compliance Certification
- 41 6 NYCRR 201-6.5: Compliance Certification
- 42 6 NYCRR 201-6.5: Compliance Certification
- 43 6 NYCRR 201-6.5: Compliance Certification

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



- 44 6 NYCRR 201-6.5: Compliance Certification
- 45 6 NYCRR 201-6.5: Compliance Certification
- 46 6 NYCRR 201-6.5: Compliance Certification
- 47 6 NYCRR 201-6.5: Compliance Certification
- 48 6 NYCRR 201-6.5: Compliance Certification
- 49 6 NYCRR 201-6.5: Compliance Certification
- 50 6 NYCRR 201-6.5: Compliance Certification
- 51 6 NYCRR 201-6.5: Compliance Certification
- 52 6 NYCRR 201-6.5: Compliance Certification
- 53 6 NYCRR 201-6.5: Compliance Certification
- 54 6 NYCRR 201-6.5: Compliance Certification
- *55 6 NYCRR 201-7.1: Capping Monitoring Condition
- *56 6 NYCRR 201-7.1: Capping Monitoring Condition
- *57 6 NYCRR 201-7.1: Capping Monitoring Condition
- *58 6 NYCRR 201-7.1: Capping Monitoring Condition
- *59 6 NYCRR 201-7.1: Capping Monitoring Condition
- *60 6 NYCRR 201-7.1: Capping Monitoring Condition
- *61 6 NYCRR 201-7.1: Capping Monitoring Condition
- 62 6 NYCRR Subpart 202-1: Compliance Certification
- 63 6 NYCRR 202-1.3: Acceptable procedures
- 64 6 NYCRR 211.1: Air pollution prohibited
- 65 6 NYCRR 225-1.4: Temporary variances.
- 66 6 NYCRR 225-1.7 (d): Compliance Certification
- 67 6 NYCRR 225-1.8: Compliance Certification
- 68 6 NYCRR 227-1.3 (a): Compliance Certification
- 69 6 NYCRR 243-1.6 (a): Permit Requirements
- 70 6 NYCRR 243-1.6 (b): Monitoring requirements
- 71 6 NYCRR 243-1.6 (c): NOx Ozone Season Emission Requirements
- 72 6 NYCRR 243-1.6 (d): Excess emission requirements
- 73 6 NYCRR 243-1.6 (e): Recordkeeping and reporting requirements
- 74 6 NYCRR 243-2.1: Authorization and responsibilities of CAIR
designated representative
- 75 6 NYCRR 243-2.4: Certificate of representation
- 76 6 NYCRR 243-8.1: General requirements
- 77 6 NYCRR 243-8.1: Prohibitions
- 78 6 NYCRR 243-8.5 (d): Quarterly reports
- 79 6 NYCRR 243-8.5 (e): Compliance certification
- 80 6 NYCRR Subpart 244-1: CAIR General and Permit Requirements
- 81 6 NYCRR Subpart 244-1: CAIR NOx Annual Trading Program General
Conditions
- 82 6 NYCRR Subpart 244-2: Designated CAIR Representative
- 83 6 NYCRR Subpart 244-8: Compliance Certification
- 84 6 NYCRR Subpart 245-1: CAIR General and Permit Requirements
- 85 6 NYCRR Subpart 245-1: CAIR SO2 Trading Program General Provisions
- 86 6 NYCRR Subpart 245-2: Designated CAIR Representative
- 87 6 NYCRR Subpart 245-8: Compliance Certification
- 88 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
- 89 40CFR 60.42b(j), NSPS Subpart Db: Compliance Certification
- 90 40CFR 60.48b(j), NSPS Subpart Db: Compliance Certification
- 92 40CFR 63.6625(f), Subpart ZZZZ: Compliance Certification
- 91 40CFR 63.6640(f)(1), Subpart ZZZZ: Compliance Certification

Emission Unit Level

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



- 93 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 94 6 NYCRR Subpart 201-6: Process Definition By Emission Unit
- 95 6 NYCRR 201-7.1: Process Permissible Emissions

EU=1-GTDBS

- 96 6 NYCRR 201-6.5: Compliance Certification
- 97 6 NYCRR 201-6.5: Compliance Certification
- 98 6 NYCRR 201-6.5: Compliance Certification
- 99 6 NYCRR 201-6.5: Compliance Certification
- 100 6 NYCRR 201-6.5: Compliance Certification
- 101 6 NYCRR 201-6.5: Compliance Certification
- 102 6 NYCRR Subpart 202-1: Compliance Certification
- 103 6 NYCRR Subpart 202-1: Compliance Certification
- 104 6 NYCRR Subpart 202-1: Compliance Certification
- 105 6 NYCRR Subpart 202-1: Compliance Certification
- 106 6 NYCRR 227-2.6: Compliance Certification
- 107 40CFR 60.7(b), NSPS Subpart A: Recordkeeping requirements.
- 108 40CFR 60.7(d), NSPS Subpart A: Excess Emissions Report
- 109 40CFR 60.7(f), NSPS Subpart A: Facility files for subject sources.
- 110 40CFR 60.8(a), NSPS Subpart A: Performance testing timeline.
- 111 40CFR 60.8(c), NSPS Subpart A: Required performance test information.
- 112 40CFR 60.8(d), NSPS Subpart A: Prior notice.
- 113 40CFR 60.8(e), NSPS Subpart A: Performance testing facilities.
- 114 40CFR 60.8(f), NSPS Subpart A: Number of required tests.
- 115 40CFR 60.11, NSPS Subpart A: Opacity standard compliance testing.
- 116 40CFR 60.11(d), NSPS Subpart A: Compliance with Standards and
Maintenance Requirements
- 117 40CFR 60.12, NSPS Subpart A: Circumvention.
- 118 40CFR 60.13, NSPS Subpart A: Compliance Certification
- 119 40CFR 60.13(d), NSPS Subpart A: Compliance Certification
- 120 40CFR 60.14, NSPS Subpart A: Modifications.
- 121 40CFR 60.15, NSPS Subpart A: Reconstruction.
- 122 40CFR 60.44b(a)(4), NSPS Subpart Db: Standard for oxides of nitrogen.
- 123 40CFR 60.45b(j), NSPS Subpart Db: Compliance Certification
- 124 40CFR 60.332(f), NSPS Subpart GG: Exemption from NOx standard.
- 125 40CFR 60.334(b), NSPS Subpart GG: CEMS
- 126 40CFR 60.334(h)(3), NSPS Subpart GG: Compliance Certification
- 127 40CFR 60.334(j), NSPS Subpart GG: Compliance Certification
- 128 40 CFR Part 72: Facility Subject to Title IV Acid Rain Regulations
and Permitting

EU=1-GTDBS,Proc=G01

- 129 6 NYCRR 201-6.5: Compliance Certification

EU=1-GTDBS,Proc=G02

- 130 6 NYCRR 201-6.5: Compliance Certification

EU=1-GTDBS,Proc=GB1

- 131 6 NYCRR 201-6.5: Compliance Certification

EU=1-GTDBS,EP=00001

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



*132 6 NYCRR 201-7.1: Capping Monitoring Condition

*133 6 NYCRR 201-7.1: Capping Monitoring Condition

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

134 ECL 19-0301: Contaminant List

135 6 NYCRR 201-1.4: Unavoidable noncompliance and violations

136 6 NYCRR 211.2: Visible Emissions Limited

137 6 NYCRR 242-1.5: Compliance Demonstration

Emission Unit Level

EU=1-GTDBS

138 6 NYCRR Subpart 242-4: Compliance Demonstration

139 6 NYCRR Subpart 242-8: Compliance Demonstration

140 6 NYCRR 242-8.5: Compliance Demonstration

NOTE: * preceding the condition number indicates capping.



FEDERALLY ENFORCEABLE CONDITIONS

****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

The items listed below are not subject to the annual compliance certification requirements under Title V. Permittees may also have other obligations under regulations of general applicability.

Item A: Emergency Defense - 6 NYCRR 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 - 6 NYCRR 201-1.10 (b)

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



Item C: Timely Application for the Renewal of Title V Permits - 6 NYCRR 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 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 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 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 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 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 ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Item I: Severability - 6 NYCRR 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 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 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.

iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.

iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

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

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

Item L: Permit Exclusion - ECL 19-0305

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

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



(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.

**MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS
SUBJECT TO ANNUAL CERTIFICATIONS AT ALL TIMES**

The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements at all times.

Condition 1: Acceptable Ambient Air Quality
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 200.6

Item 1.1:

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.

Condition 2: Fees
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 201-6.5 (a) (7)

Item 2.1:

The owner and/or operator of a stationary source shall pay fees to the Department consistent with the fee schedule authorized by ECL 72-0303.

Condition 3: Recordkeeping and reporting of compliance monitoring
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 201-6.5 (c)

Item 3.1:

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



The following information must be included in any required compliance monitoring records and reports:

- (i) The date, place, and time of sampling or measurements;
- (ii) The date(s) analyses were performed;
- (iii) The company or entity that performed the analyses;
- (iv) The analytical techniques or methods used including quality assurance and quality control procedures if required;
- (v) The results of such analyses including quality assurance data where required; and
- (vi) The operating conditions as existing at the time of sampling or measurement.

Any deviation from permit requirements must be clearly identified in all records and reports. Reports must be certified by a responsible official, consistent with Section 201-6.3 of this Part 201.

Condition 4: Monitoring, Related Recordkeeping, and Reporting Requirements.

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 201-6.5 (c) (2)

Item 4.1:

Compliance monitoring and recordkeeping shall be conducted according to the terms and conditions contained in this permit and shall follow all quality assurance requirements found in applicable regulations. Records of all monitoring data and support information must be retained for a period of at least 5 years from the date of the monitoring, sampling, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

Condition 5: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 201-6.5 (c) (3) (ii)

Item 5.1:

The Compliance Certification activity will be performed for the Facility.

Item 5.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To meet the requirements of this facility permit with respect to reporting, the permittee must:

Submit reports of any required monitoring at a minimum



frequency of every 6 months, based on a calendar year reporting schedule. These reports shall be submitted to the Department within 30 days after the end of a reporting period. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by the responsible official for this facility.

Notify the Department and report permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken. Where the underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, that definition or time frame shall govern. Where the underlying applicable requirement fails to address the time frame for reporting deviations, reports of deviations shall be submitted to the permitting authority based on the following schedule:

- (1) For emissions of a hazardous air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.
- (2) For emissions of any regulated air pollutant, excluding those listed in paragraph (1) of this section, that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.
- (3) For all other deviations from permit requirements, the report shall be contained in the 6 month monitoring report required above.
- (4) This permit may contain a more stringent reporting requirement than required by paragraphs (1), (2) or (3) above. If more stringent reporting requirements have been placed in this permit or exist in applicable requirements that apply to this facility, the more stringent reporting requirement shall apply.

If above paragraphs (1) or (2) are met, the source must notify the permitting authority by telephone during normal business hours at the Regional Office of jurisdiction for this permit, attention Regional Air Pollution Control Engineer (RAPCE) according to the timetable listed in paragraphs (1) and (2) of this section. For deviations and incidences that must be reported outside of normal business hours, on weekends, or holidays, the DEC Spill Hotline phone number at 1-800-457-7362 shall be used. A

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



written notice, certified by a responsible official consistent with 6 NYCRR Part 201-6.3(d)(12), must be submitted within 10 working days of an occurrence for deviations reported under (1) and (2). All deviations reported under paragraphs (1) and (2) of this section must also be identified in the 6 month monitoring report required above.

The provisions of 6 NYCRR 201-1.4 shall apply if the permittee seeks to have a violation excused unless otherwise limited by regulation. In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets. Notwithstanding any recordkeeping and reporting requirements in 6 NYCRR 201-1.4, reports of any deviations shall not be on a less frequent basis than the reporting periods described in paragraphs (1) and (4) above.

In the case of any condition contained in this permit with a reporting requirement of "Upon request by regulatory agency" the permittee shall include in the semiannual report, a statement for each such condition that the monitoring or recordkeeping was performed as required or requested and a listing of all instances of deviations from these requirements.

In the case of any emission testing performed during the previous six month reporting period, either due to a request by the Department, EPA, or a regulatory requirement, the permittee shall include in the semiannual report a summary of the testing results and shall indicate whether or not the Department or EPA has approved the results.

All semiannual reports shall be submitted to the Administrator (or his or her representative) as well as two copies to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office). Mailing addresses for the above referenced persons are contained in the monitoring condition for 6 NYCRR Part 201-6.5(e), contained elsewhere in this permit.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Condition 6: Compliance Certification
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 201-6.5 (e)

Item 6.1:

The Compliance Certification activity will be performed for the Facility.

Item 6.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Requirements for compliance certifications with terms and conditions contained in this facility permit include the following:

- i. Compliance certifications shall contain:
 - the identification of each term or condition of the permit that is the basis of the certification;
 - the compliance status;
 - whether compliance was continuous or intermittent;
 - the method(s) used for determining the compliance status of the facility, currently and over the reporting period consistent with the monitoring and related recordkeeping and reporting requirements of this permit;
 - such other facts as the Department may require to determine the compliance status of the facility as specified in any special permit terms or conditions; and
 - such additional requirements as may be specified elsewhere in this permit related to compliance certification.
- ii. The responsible official must include in the annual certification report all terms and conditions contained in this permit which are identified as being subject to certification, including emission limitations, standards, or work practices. That is, the provisions labeled herein as "Compliance Certification" are not the only provisions of this permit for which an annual certification is required.
- iii. Compliance certifications shall be submitted annually. Certification reports are due 30 days after the anniversary date of four consecutive calendar quarters. The first report is due 30 days after the calendar quarter that occurs just prior to the permit anniversary date, unless another quarter has been acceptable by the Department.
- iv. All compliance certifications shall be submitted to

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



the Administrator (or his or her representative) as well as two copies to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office). Please send annual compliance certifications to Chief of the Stationary Source Compliance Section, the Region 2 EPA representative for the Administrator, at the following address:

USEPA Region 2
Air Compliance Branch
290 Broadway
New York, NY 10007-1866

The address for the RAPCE is as follows:

NYSDEC
1130 North Westcott Road
Schenectady, NY 12306-2014

The address for the BQA is as follows:

NYSDEC
Bureau of Quality Assurance
625 Broadway
Albany, NY 12233-3258

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2012.
Subsequent reports are due on the same day each year

Condition 7: Compliance Certification
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 202-2.1

Item 7.1:

The Compliance Certification activity will be performed for the Facility.

Item 7.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

Emission statements shall be submitted on or before April 15th each year for emissions of the previous calendar year. Statements are to be mailed to: New York State Department of Environmental Conservation, Division of Air Resources, Bureau of Air Quality Planning, 625 Broadway, Albany NY 12233-3251

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due by April 15th for previous calendar year

Condition 8: Recordkeeping requirements
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 202-2.5

Item 8.1:

(a) The following records shall be maintained for at least five years:

- (1) a copy of each emission statement submitted to the department; and
 - (2) records indicating how the information submitted in the emission statement was determined, including any calculations, data, measurements, and estimates used.
- (b) These records shall be made available at the facility to the representatives of the department upon request during normal business hours.

Condition 9: Open Fires - Prohibitions
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 215.2

Item 9.1:

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

Item 9.2

Per Section 215.3, burning in an open fire, provided it is not contrary to other law or regulation, will be allowed as follows:

- (a) On-site burning in any town with a total population less than 20,000 of downed limbs and branches (including branches with attached leaves or needles) less than six inches in diameter and eight feet in length between May 15th and the following March 15th. For the purposes of this subdivision, the total population of a town shall include the population of any village or portion thereof located within the town. However, this subdivision shall not be construed to allow burning within any village.
- (b) Barbecue grills, maple sugar arches and similar outdoor cooking devices when actually used for cooking or processing food.
- (c) Small fires used for cooking and camp fires provided that only charcoal or untreated wood is used as fuel and the fire is not left unattended until extinguished.
- (d) On-site burning of agricultural wastes as part of a valid agricultural operation on contiguous agricultural lands larger than five acres actively devoted to agricultural or horticultural use, provided such waste is actually grown or generated on those lands and such waste is capable of being fully burned within a 24-hour period.
- (e) The use of liquid petroleum fueled smudge pots to prevent frost damage to crops.
- (f) Ceremonial or celebratory bonfires where not otherwise prohibited by law, provided that only untreated wood or other agricultural products are used as fuel and the fire is not left unattended until extinguished.
- (g) Small fires that are used to dispose of a flag or religious item, and small fires or other smoke

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



producing process where not otherwise prohibited by law that are used in connection with a religious ceremony.

(h) Burning on an emergency basis of explosive or other dangerous or contraband materials by police or other public safety organization.

(i) Prescribed burns performed according to Part 194 of this Title.

(j) Fire training, including firefighting, fire rescue, and fire/arson investigation training, performed under applicable rules and guidelines of the New York State Department of State's Office of Fire Prevention and Control. For fire training performed on acquired structures, the structures must be emptied and stripped of any material that is toxic, hazardous or likely to emit toxic smoke (such as asbestos, asphalt shingles and vinyl siding or other vinyl products) prior to burning and must be at least 300 feet from other occupied structures. No more than one structure per lot or within a 300 foot radius (whichever is bigger) may be burned in a training exercise.

(k) Individual open fires as approved by the Director of the Division of Air Resources as may be required in response to an outbreak of a plant or animal disease upon request by the commissioner of the Department of Agriculture and Markets, or for the destruction of invasive plant and insect species.

(l) Individual open fires that are otherwise authorized under the environmental conservation law, or by rule or regulation of the Department.

MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS SUBJECT TO ANNUAL CERTIFICATIONS ONLY IF APPLICABLE

The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements only if effectuated during the reporting period.

[NOTE: The corresponding annual compliance certification for those conditions not effectuated during the reporting period shall be specified as "not applicable".]

Condition 10: Maintenance of Equipment
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 200.7

Item 10.1:

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.

Condition 11: Recycling and Salvage
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 201-1.7

Item 11.1:

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 the ECL.

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Condition 12: Prohibition of Reintroduction of Collected Contaminants to the air

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 201-1.8

Item 12.1:

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.

Condition 13: Exempt Sources - Proof of Eligibility

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 201-3.2 (a)

Item 13.1:

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 this Subpart. 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 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.

Condition 14: Trivial Sources - Proof of Eligibility

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 201-3.3 (a)

Item 14.1:

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

Condition 15: Standard Requirement - Provide Information

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 201-6.5 (a) (4)

Item 15.1:

The owner and/or operator 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. Upon request, the permittee shall also furnish to the department copies of records

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the administrator along with a claim of confidentiality, if the administrator initiated the request for information or otherwise has need of it.

Condition 16: General Condition - Right to Inspect
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 201-6.5 (a) (8)

Item 16.1:

The department or an authorized representative shall be allowed upon presentation of credentials and other documents as may be required by law to:

- (i) enter upon the permittee's premises where a facility subject to the permitting requirements of this Subpart 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 emission sources, equipment (including monitoring and air pollution control equipment), practices, and operations regulated or required under the permit; and
- (iv) sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

Condition 17: Standard Requirements - Progress Reports
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 201-6.5 (d) (5)

Item 17.1:

Progress reports consistent with an applicable schedule of compliance are to be submitted at least semiannually, or at a more frequent period if specified in the applicable requirement or by the department. 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.

Condition 18: Off Permit Changes
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 201-6.5 (f) (6)

Item 18.1:

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,

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



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 provision 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 as required below in advance of the proposed changes within a minimum of seven days. The facility owner or operator, and the department shall attach each such notice to their copy of the relevant permit.

(i) For each such change, the written notification required above shall include a brief description of the change within the permitted facility, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.

(ii) The permit shield described in section 6 NYCRR 201-6.6 shall not apply to any change made pursuant to this paragraph.

Condition 19: Required Emissions Tests
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 202-1.1

Item 19.1:

For the purpose of ascertaining compliance or non-compliance with any air pollution control code, rule or regulation, the commissioner may require the person who owns such air contamination source to submit an acceptable report of measured emissions within a stated time.

Condition 20: Accidental release provisions.
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:40 CFR Part 68

Item 20.1:

If a chemical is listed in Tables 1,2,3 or 4 of 40 CFR §68.130 is present in a process in quantities greater than the threshold quantity listed in Tables 1,2,3 or 4, the following requirements will apply:

- a) The owner or operator shall comply with the provisions of 40 CFR Part 68 and;
- b) The owner or operator shall submit at the time of permit issuance (if not previously submitted) one of the following, if such quantities are present:
 - 1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR §68.10(a) or,
 - 2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan. Information should be submitted to:

Risk Management Plan Reporting Center
C/O CSC
8400 Corporate Dr

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Carrollton, Md. 20785

Condition 21: Recycling and Emissions Reduction
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 40 CFR 82, Subpart F

Item 21.1:

The permittee shall comply with all applicable provisions of 40 CFR Part 82.

The following conditions are subject to annual compliance certification requirements for Title V permits only.

Condition 22: Emission Unit Definition
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 22.1:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-EDGEN

Emission Unit Description:

Emergency diesel generator engine.

Building(s): B003

Item 22.2:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-FPDSL

Emission Unit Description:

Emergency fire water pump engine.

Building(s): B004

Item 22.3:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-GTDBS

Emission Unit Description:

One combustion turbine with supplemental duct burners and a selective catalytic reduction (SCR) system for NO_x control venting through one stack attached to the turbine/generator building.

Building(s): B001

Item 22.4:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-HWBLR

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Emission Unit Description:

Hot water boiler is used for freeze protection and fuel oil preheating.

Building(s): B001

Item 22.5:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: T-00110

Emission Unit Description:

Main 350,000 gallon #2 fuel oil tank vent. The tank is 40 ft. high with a 40 ft. diameter.

Building(s): B002

Condition 23: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 201-6.5

Item 23.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-GTDBS

Process: G01

Emission Unit: 1-GTDBS

Process: GB1

Regulated Contaminant(s):

CAS No: 007664-41-7 AMMONIA

Item 23.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Continuous emission monitor (CEM) utilizing a NOx analyzer equipped with a NH3 to NOx converter. NH3 emissions are calculated as the difference between the NOx readings measured after the converter and the stack NOx readings.

Manufacturer Name/Model Number: Rosemount 951E

Parameter Monitored: AMMONIA

Upper Permit Limit: 10.0 parts per million by volume
(dry, corrected to 15% O2)

Reference Test Method: See description

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Reports due 30 days after the reporting period.
The initial report is due 7/30/2011.
Subsequent reports are due every 6 calendar month(s).

Condition 24: Compliance Certification
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 201-6.5

Item 24.1:

The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: 1-GTDBS
Process: BW1

Emission Unit: 1-GTDBS
Process: BW2

Emission Unit: 1-GTDBS
Process: BW3

Emission Unit: 1-GTDBS
Process: GW1

Emission Unit: 1-GTDBS
Process: GW2

Regulated Contaminant(s):
CAS No: 000630-08-0 CARBON MONOXIDE

Item 24.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

On line gas turbine water washing (emission processes
GW1, GW2, BW1, BW2 and BW3) shall cumulatively not exceed
500 hours per 12 month period. Records must be maintained
which clearly show the time that water washing took place.
BW2, BW3 and GW2 are AOS processes, and will accordingly,
be included in this calculation only if fuel oil is fired
in the CT while water washing.

OPERATIONAL FLEXIBILITY

ALTERNATE OPERATING SCENARIO (AOS)

AOS is allowed as a permitting scenario by 6 NYCRR Part
201-6.5(f). Rensselaer Cogen proposes that this condition
be designated as an AOS. The Department accepts this
proposal. This AOS condition is specific to the use of
fuel oil as a combustion fuel by the targeted facility, or

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



emission unit(s) or emission point(s) or process (es) or emission sources(s) specified herein. All monitoring, testing and reporting required by this AOS condition, will be deferred until fuel oil is used as a combustion fuel. If fuel oil is used as a combustion fuel in this permit term, then all required reporting for this AOS condition, will be submitted at the earlier date, of either the next regularly scheduled report date or before the end of the permit term. AOS status shall be included in the Semi Annual and the Annual Compliance Reports.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: WATER

Parameter Monitored: WATER

Upper Permit Limit: 500 hours per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 25: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 201-6.5

Item 25.1:

The Compliance Certification activity will be performed for the Facility.

Item 25.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The duct burner shall fire only natural gas or #2 fuel oil.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 26: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 201-6.5

Item 26.1:

The Compliance Certification activity will be performed for the facility:

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



The Compliance Certification applies to:

Emission Unit: 1-GTDBS

Process: G01

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 26.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Compliance with this non-methane VOC emission limit was demonstrated with initial performance testing.

Parameter Monitored: VOC

Upper Permit Limit: 0.006 pounds per million Btus

Reference Test Method: RM 25

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 27: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 201-6.5

Item 27.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-GTDBS

Process: G02

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 27.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Compliance with this non-methane VOC emission limit was demonstrated by stack testing, during initial stack testing.

OPERATIONAL FLEXIBILITY

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



ALTERNATE OPERATING SCENARIO (AOS)

AOS is allowed as a permitting scenario by 6 NYCRR Part 201-6.5(f). Rensselaer Cogen proposes that this condition be designated as an AOS. The Department accepts this proposal. This AOS condition is specific to the use of fuel oil as a combustion fuel by the targeted facility, or emission unit(s) or emission point(s) or process (es) or emission sources(s) specified herein. All monitoring, testing and reporting required by this AOS condition, will be deferred until fuel oil is used as a combustion fuel.

If fuel oil is used as a combustion fuel in this permit term, then all required reporting for this AOS condition, will be submitted at the earlier date, of either the next regularly scheduled report date or before the end of the permit term. AOS status shall be included in the Semi Annual and the Annual Compliance Reports.

Parameter Monitored: VOC

Upper Permit Limit: 11.0 pounds per hour

Reference Test Method: RM-25

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 28: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 201-6.5

Item 28.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-GTDBS

Process: G02

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 28.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Compliance with this non-methane VOC emission limit was demonstrated by stack testing, during initial stack testing.

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



OPERATIONAL FLEXIBILITY

ALTERNATE OPERATING SCENARIO (AOS)

AOS is allowed as a permitting scenario by 6 NYCRR Part 201-6.5(f). Rensselaer Cogen proposes that this condition be designated as an AOS. The Department accepts this proposal. This AOS condition is specific to the use of fuel oil as a combustion fuel by the targeted facility, or emission unit(s) or emission point(s) or process (es) or emission sources(s) specified herein. All monitoring, testing and reporting required by this AOS condition, will be deferred until fuel oil is used as a combustion fuel. If fuel oil is used as a combustion fuel in this permit term, then all required reporting for this AOS condition, will be submitted at the earlier date, of either the next regularly scheduled report date or before the end of the permit term. AOS status shall be included in the Semi Annual and the Annual Compliance Reports.

Parameter Monitored: VOC

Upper Permit Limit: 0.018 pounds per million Btus

Reference Test Method: RM-25

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 29: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 201-6.5

Item 29.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-GTDBS

Process: GB2

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 29.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Compliance with this non-methane VOC emission limit was demonstrated by stack testing, during initial stack testing.



OPERATIONAL FLEXIBILITY

ALTERNATE OPERATING SCENARIO (AOS)

AOS is allowed as a permitting scenario by 6 NYCRR Part 201-6.5(f). Rensselaer Cogen proposes that this condition be designated as an AOS. The Department accepts this proposal. This AOS condition is specific to the use of fuel oil as a combustion fuel by the targeted facility, or emission unit(s) or emission point(s) or process (es) or emission sources(s) specified herein. All monitoring, testing and reporting required by this AOS condition, will be deferred until fuel oil is used as a combustion fuel. If fuel oil is used as a combustion fuel in this permit term, then all required reporting for this AOS condition, will be submitted at the earlier date, of either the next regularly scheduled report date or before the end of the permit term. AOS status shall be included in the Semi Annual and the Annual Compliance Reports.

Parameter Monitored: VOC

Upper Permit Limit: 18.6 pounds per hour

Reference Test Method: RM-25

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 30: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 201-6.5

Item 30.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-GTDBS

Process: G01

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 30.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Compliance with this non-methane VOC emission limit was demonstrated by stack testing, during initial stack

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



testing.

Parameter Monitored: VOC

Upper Permit Limit: 3.1 pounds per hour

Reference Test Method: RM 25

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 31: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 201-6.5

Item 31.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-GTDBS

Process: GB1

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 31.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Compliance with this non-methane VOC emission limit was demonstrated by stack testing, during initial stack testing.

Parameter Monitored: VOC

Upper Permit Limit: 6.43 pounds per hour

Reference Test Method: RM-25

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 32: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 201-6.5

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Item 32.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-GTDBS

Process: GB3

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 32.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Compliance with this non-methane VOC emission limit was demonstrated by separate stack testing of the GT on oil (GO2), GT and DB on natural gas (GB1), and GT only on natural gas (GO1) during initial startup.

OPERATIONAL FLEXIBILITY

ALTERNATE OPERATING SCENARIO (AOS)

AOS is allowed as a permitting scenario by 6 NYCRR Part 201-6.5(f). Rensselaer Cogen proposes that this condition be designated as an AOS. The Department accepts this proposal. This AOS condition is specific to the use of fuel oil as a combustion fuel by the targeted facility, or emission unit(s) or emission point(s) or process (es) or emission sources(s) specified herein. All monitoring, testing and reporting required by this AOS condition, will be deferred until fuel oil is used as a combustion fuel. If fuel oil is used as a combustion fuel in this permit term, then all required reporting for this AOS condition, will be submitted at the earlier date, of either the next regularly scheduled report date or before the end of the permit term. AOS status shall be included in the Semi Annual and the Annual Compliance Reports.

Parameter Monitored: VOC

Upper Permit Limit: 14.33 pounds per hour

Reference Test Method: RM-25

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 33: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Applicable Federal Requirement: 6 NYCRR 201-6.5

Item 33.1:

The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: 1-GTDBS
Process: G02

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES
CAS No: 0NY075-00-5 PM-10

Item 33.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Compliance with this PM emission limit will be demonstrated as follows;

OPERATIONAL FLEXIBILITY
ALTERNATE OPERATING SCENARIO (AOS)
AOS is allowed as a permitting scenario by 6 NYCRR Part 201-6.5(f). Rensselaer Cogen proposes that this condition be designated as an AOS. The Department accepts this proposal. This AOS condition is specific to the use of fuel oil as a combustion fuel by the targeted facility, or emission unit(s) or emission point(s) or process (es) or emission sources(s) specified herein. All monitoring, testing and reporting required by this AOS condition, will be deferred until fuel oil is used as a combustion fuel. If fuel oil is used as a combustion fuel in this permit term, then all required reporting for this AOS condition, will be submitted at the earlier date, of either the next regularly scheduled report date or before the end of the permit term. AOS status shall be included in the Semi Annual and the Annual Compliance Reports.

Parameter Monitored: PM-10
Upper Permit Limit: 22.0 pounds per hour
Reference Test Method: RM-5
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2011.
Subsequent reports are due every 6 calendar month(s).

Condition 34: Compliance Certification
Effective between the dates of 04/19/2011 and 04/18/2016

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Applicable Federal Requirement: 6 NYCRR 201-6.5

Item 34.1:

The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: 1-GTDBS
Process: G02

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES
CAS No: 0NY075-00-5 PM-10

Item 34.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Compliance with this PM emission limit will be demonstrated as follows;

OPERATIONAL FLEXIBILITY
ALTERNATE OPERATING SCENARIO (AOS)
AOS is allowed as a permitting scenario by 6 NYCRR Part 201-6.5(f). Rensselaer Cogen proposes that this condition be designated as an AOS. The Department accepts this proposal. This AOS condition is specific to the use of fuel oil as a combustion fuel by the targeted facility, or emission unit(s) or emission point(s) or process (es) or emission sources(s) specified herein. All monitoring, testing and reporting required by this AOS condition, will be deferred until fuel oil is used as a combustion fuel. If fuel oil is used as a combustion fuel in this permit term, then all required reporting for this AOS condition, will be submitted at the earlier date, of either the next regularly scheduled report date or before the end of the permit term. AOS status shall be included in the Semi Annual and the Annual Compliance Reports.

Parameter Monitored: PM-10
Upper Permit Limit: 0.037 pounds per million Btus
Reference Test Method: RM-5
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2011.
Subsequent reports are due every 6 calendar month(s).

Condition 35: Compliance Certification
Effective between the dates of 04/19/2011 and 04/18/2016

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Applicable Federal Requirement: 6 NYCRR 201-6.5

Item 35.1:

The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: 1-GTDBS
Process: GB2

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES
CAS No: 0NY075-00-5 PM-10

Item 35.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Compliance with this PM emission limit will be demonstrated as follows;

OPERATIONAL FLEXIBILITY
ALTERNATE OPERATING SCENARIO (AOS)
AOS is allowed as a permitting scenario by 6 NYCRR Part 201-6.5(f). Rensselaer Cogen proposes that this condition be designated as an AOS. The Department accepts this proposal. This AOS condition is specific to the use of fuel oil as a combustion fuel by the targeted facility, or emission unit(s) or emission point(s) or process (es) or emission sources(s) specified herein. All monitoring, testing and reporting required by this AOS condition, will be deferred until fuel oil is used as a combustion fuel. If fuel oil is used as a combustion fuel in this permit term, then all required reporting for this AOS condition, will be submitted at the earlier date, of either the next regularly scheduled report date or before the end of the permit term. AOS status shall be included in the Semi Annual and the Annual Compliance Reports.

Parameter Monitored: PM-10
Upper Permit Limit: 29.6 pounds per hour
Reference Test Method: RM-5
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2011.
Subsequent reports are due every 6 calendar month(s).

Condition 36: Compliance Certification
Effective between the dates of 04/19/2011 and 04/18/2016

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Applicable Federal Requirement: 6 NYCRR 201-6.5

Item 36.1:

The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: 1-GTDBS
Process: GB3

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES
CAS No: 0NY075-00-5 PM-10

Item 36.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Compliance with this PM emission limit will be demonstrated as follows;

OPERATIONAL FLEXIBILITY
ALTERNATE OPERATING SCENARIO (AOS)
AOS is allowed as a permitting scenario by 6 NYCRR Part 201-6.5(f). Rensselaer Cogen proposes that this condition be designated as an AOS. The Department accepts this proposal. This AOS condition is specific to the use of fuel oil as a combustion fuel by the targeted facility, or emission unit(s) or emission point(s) or process (es) or emission sources(s) specified herein. All monitoring, testing and reporting required by this AOS condition, will be deferred until fuel oil is used as a combustion fuel. If fuel oil is used as a combustion fuel in this permit term, then all required reporting for this AOS condition, will be submitted at the earlier date, of either the next regularly scheduled report date or before the end of the permit term. AOS status shall be included in the Semi Annual and the Annual Compliance Reports.

Parameter Monitored: PM-10
Upper Permit Limit: 24.4 pounds per hour
Reference Test Method: RM-5
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2011.
Subsequent reports are due every 6 calendar month(s).

Condition 37: Compliance Certification
Effective between the dates of 04/19/2011 and 04/18/2016

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Applicable Federal Requirement:6 NYCRR 201-6.5

Item 37.1:

The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: 1-GTDBS
Process: G01

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES
CAS No: 0NY075-00-5 PM-10

Item 37.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Compliance with the PM emission limit must be
demonstrated once during the term of the permit.

Parameter Monitored: PM-10

Upper Permit Limit: 0.007 pounds per million Btus

Reference Test Method: RM 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 38: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 201-6.5

Item 38.1:

The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: 1-GTDBS
Process: G01

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES
CAS No: 0NY075-00-5 PM-10

Item 38.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Monitoring Description:

Compliance with the PM emission limit must be demonstrated once during the term of the permit.

Parameter Monitored: PM-10

Upper Permit Limit: 3.6 pounds per hour

Reference Test Method: RM 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 39: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 201-6.5

Item 39.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-GTDBS

Process: GB1

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

CAS No: 0NY075-00-5 PM-10

Item 39.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Compliance with the PM emission limit must be demonstrated once during the term of the permit.

Parameter Monitored: PM-10

Upper Permit Limit: 6.0 pounds per hour

Reference Test Method: RM 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 40: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 201-6.5

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Item 40.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-GTDBS

Process: G02

Emission Unit: 1-GTDBS

Process: GB3

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 40.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Continuous mass emission rate of NO_x from 1GTDBS must be monitored.

OPERATIONAL FLEXIBILITY

ALTERNATE OPERATING SCENARIO (AOS)

AOS is allowed as a permitting scenario by 6 NYCRR Part 201-6.5(f). Rensselaer Cogen proposes that this condition be designated as an AOS. The Department accepts this proposal. This AOS condition is specific to the use of fuel oil as a combustion fuel by the targeted facility, or emission unit(s) or emission point(s) or process (es) or emission sources(s) specified herein. All monitoring, testing and reporting required by this AOS condition, will be deferred until fuel oil is used as a combustion fuel. If fuel oil is used as a combustion fuel in this permit term, then all required reporting for this AOS condition, will be submitted at the earlier date, of either the next regularly scheduled report date or before the end of the permit term. AOS status shall be included in the Semi Annual and the Annual Compliance Reports.

Manufacturer Name/Model Number: Rosemount 951C

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 30.0 parts per million by volume
(dry, corrected to 15% O₂)

Reference Test Method: 40 CFR 60 Appendix B&F

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Condition 41: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 201-6.5

Item 41.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-GTDBS

Process: GB2

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 41.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Continuous mass emission rate of NO_x from 1GTDBS must be monitored.

OPERATIONAL FLEXIBILITY

ALTERNATE OPERATING SCENARIO (AOS)

AOS is allowed as a permitting scenario by 6 NYCRR Part 201-6.5(f). Rensselaer Cogen proposes that this condition be designated as an AOS. The Department accepts this proposal. This AOS condition is specific to the use of fuel oil as a combustion fuel by the targeted facility, or emission unit(s) or emission point(s) or process (es) or emission sources(s) specified herein. All monitoring, testing and reporting required by this AOS condition, will be deferred until fuel oil is used as a combustion fuel. If fuel oil is used as a combustion fuel in this permit term, then all required reporting for this AOS condition, will be submitted at the earlier date, of either the next regularly scheduled report date or before the end of the permit term. AOS status shall be included in the Semi Annual and the Annual Compliance Reports.

Manufacturer Name/Model Number: Rosemount 951C

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 30.0 parts per million by volume

(dry, corrected to 15% O₂)

Reference Test Method: 40 CFR 60 Appendix B&F

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



The initial report is due 7/30/2011.
Subsequent reports are due every 6 calendar month(s).

Condition 42: Compliance Certification
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 201-6.5

Item 42.1:

The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: 1-GTDBS
Process: G02

Emission Unit: 1-GTDBS
Process: GB3

Regulated Contaminant(s):
CAS No: 000630-08-0 CARBON MONOXIDE

Item 42.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Continuous mass emission rate of CO from 1GTDBS must be monitored.

OPERATIONAL FLEXIBILITY

ALTERNATE OPERATING SCENARIO (AOS)

AOS is allowed as a permitting scenario by 6 NYCRR Part 201-6.5(f). Rensselaer Cogen proposes that this condition be designated as an AOS. The Department accepts this proposal. This AOS condition is specific to the use of fuel oil as a combustion fuel by the targeted facility, or emission unit(s) or emission point(s) or process (es) or emission sources(s) specified herein. All monitoring, testing and reporting required by this AOS condition, will be deferred until fuel oil is used as a combustion fuel. If fuel oil is used as a combustion fuel in this permit term, then all required reporting for this AOS condition, will be submitted at the earlier date, of either the next regularly scheduled report date or before the end of the permit term. AOS status shall be included in the Semi Annual and the Annual Compliance Reports.

Manufacturer Name/Model Number: Siemens/Ultramat 5E

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 44.0 pounds per hour

Reference Test Method: 40 CFR 60 Appendix B&F

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 43: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 201-6.5

Item 43.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-GTDBS

Process: GB2

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 43.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Continuous mass emission rate of CO from 1GTDBS must be monitored.

OPERATIONAL FLEXIBILITY

ALTERNATE OPERATING SCENARIO (AOS)

AOS is allowed as a permitting scenario by 6 NYCRR Part 201-6.5(f). Rensselaer Cogen proposes that this condition be designated as an AOS. The Department accepts this proposal. This AOS condition is specific to the use of fuel oil as a combustion fuel by the targeted facility, or emission unit(s) or emission point(s) or process (es) or emission sources(s) specified herein. All monitoring, testing and reporting required by this AOS condition, will be deferred until fuel oil is used as a combustion fuel.

If fuel oil is used as a combustion fuel in this permit term, then all required reporting for this AOS condition, will be submitted at the earlier date, of either the next regularly scheduled report date or before the end of the permit term. AOS status shall be included in the Semi Annual and the Annual Compliance Reports.

Manufacturer Name/Model Number: Siemens/Ultramat 5E

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 44.0 pounds per hour

Reference Test Method: 40 CFR 60 Appendix B&F

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 44: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 201-6.5

Item 44.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-GTDBS

Process: G01

Emission Unit: 1-GTDBS

Process: GB1

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 44.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Continuous mass emission rate of CO from 1GTDBS must be monitored.

Manufacturer Name/Model Number: Siemens/Ultramat 5E

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 28.0 pounds per hour

Reference Test Method: 40 CFR 60 Appendix B&F

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 45: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 201-6.5

Item 45.1:

The Compliance Certification activity will be performed for the facility:

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



The Compliance Certification applies to:

Emission Unit: 1-GTDBS

Process: GB3

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 45.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Continuous emission monitoring is required. Emissions of CO shall not exceed the limits herein while firing no. 2 fuel oil in the gas turbine.

OPERATIONAL FLEXIBILITY

ALTERNATE OPERATING SCENARIO (AOS)

AOS is allowed as a permitting scenario by 6 NYCRR Part 201-6.5(f). Rensselaer Cogen proposes that this condition be designated as an AOS. The Department accepts this proposal. This AOS condition is specific to the use of fuel oil as a combustion fuel by the targeted facility, or emission unit(s) or emission point(s) or process (es) or emission sources(s) specified herein. All monitoring, testing and reporting required by this AOS condition, will be deferred until fuel oil is used as a combustion fuel. If fuel oil is used as a combustion fuel in this permit term, then all required reporting for this AOS condition, will be submitted at the earlier date, of either the next regularly scheduled report date or before the end of the permit term. AOS status shall be included in the Semi Annual and the Annual Compliance Reports.

Manufacturer Name/Model Number: SIEMENS/ULTRAMAT 5E

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 28.0 parts per million by volume
(dry, corrected to 15% O₂)

Reference Test Method: 40 CFR 60 Appendix B&F

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 46: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 201-6.5

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Item 46.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-GTDBS

Process: G01

Emission Unit: 1-GTDBS

Process: GB1

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 46.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Continuous emission monitoring is required. Emissions shall not exceed the limits herein while firing natural gas in the CT.

Manufacturer Name/Model Number: Rosemount 951C

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 9.0 parts per million by volume
(dry, corrected to 15% O₂)

Reference Test Method: 40 CFR 60 Appendix B&F

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 47: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 201-6.5

Item 47.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-GTDBS

Process: BW1

Emission Unit: 1-GTDBS

Process: GW1

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Item 47.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Continuous emission monitoring is required. Emissions of CO shall not exceed the limits herein while firing natural gas in the gas turbine, and supplemental duct burners while, performing washing.

Manufacturer Name/Model Number: Siemens/Ultramat 5E

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 40.0 parts per million by volume
(dry, corrected to 15% O₂)

Reference Test Method: 40 CFR 60 Appendix B&F

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 48: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 201-6.5

Item 48.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-GTDBS

Process: GB2

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 48.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Continuous emission monitoring is required. Emissions of CO shall not exceed the limits herein while firing # 2 fuel oil in the gas turbine and duct burners.

OPERATIONAL FLEXIBILITY

ALTERNATE OPERATING SCENARIO (AOS)

AOS is allowed as a permitting scenario by 6 NYCRR Part 201-6.5(f). Rensselaer Cogen proposes that this condition

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



be designated as an AOS. The Department accepts this proposal. This AOS condition is specific to the use of fuel oil as a combustion fuel by the targeted facility, or emission unit(s) or emission point(s) or process (es) or emission sources(s) specified herein. All monitoring, testing and reporting required by this AOS condition, will be deferred until fuel oil is used as a combustion fuel. If fuel oil is used as a combustion fuel in this permit term, then all required reporting for this AOS condition, will be submitted at the earlier date, of either the next regularly scheduled report date or before the end of the permit term. AOS status shall be included in the Semi Annual and the Annual Compliance Reports.

Manufacturer Name/Model Number: SIEMENS/ULTRAMAT 5E

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 28.0 parts per million by volume
(dry, corrected to 15% O₂)

Reference Test Method: 40 CFR 60 Appendix B&F

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 49: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 201-6.5

Item 49.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-GTDBS

Process: BW2

Emission Unit: 1-GTDBS

Process: BW3

Emission Unit: 1-GTDBS

Process: GW2

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 49.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Monitoring Description:

Continuous emission monitor must be used to monitor CO from 1GTDBS. Water-washing emission limits shall be demonstrated with certified CEM data once per permit term.

OPERATIONAL FLEXIBILITY

ALTERNATE OPERATING SCENARIO (AOS)

AOS is allowed as a permitting scenario by 6 NYCRR Part 201-6.5(f). Rensselaer Cogen proposes that this condition be designated as an AOS. The Department accepts this proposal. This AOS condition is specific to the use of fuel oil as a combustion fuel by the targeted facility, or emission unit(s) or emission point(s) or process (es) or emission sources(s) specified herein. All monitoring, testing and reporting required by this AOS condition, will be deferred until fuel oil is used as a combustion fuel. If fuel oil is used as a combustion fuel in this permit term, then all required reporting for this AOS condition, will be submitted at the earlier date, of either the next regularly scheduled report date or before the end of the permit term. AOS status shall be included in the Semi Annual and the Annual Compliance Reports.

Manufacturer Name/Model Number: Siemens/Ultramat 5E

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 56 parts per million by volume (dry,
corrected to 15% O₂)

Reference Test Method: 40 CFR 60 Appendix B&F

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 50: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 201-6.5

Item 50.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-GTDBS

Process: G02

Emission Unit: 1-GTDBS

Process: GB3

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Regulated Contaminant(s):

CAS No: 007664-41-7 AMMONIA

Item 50.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Continuous emission monitor (CEM) utilizing a NOx analyzer equipped with a NH3 to NOx converter. NH3 emissions are calculated as the difference between the NOx readings measured after the converter and the stack NOx readings.

OPERATIONAL FLEXIBILITY

ALTERNATE OPERATING SCENARIO (AOS)

AOS is allowed as a permitting scenario by 6 NYCRR Part 201-6.5(f). Rensselaer Cogen proposes that this condition be designated as an AOS. The Department accepts this proposal. This AOS condition is specific to the use of fuel oil as a combustion fuel by the targeted facility, or emission unit(s) or emission point(s) or process (es) or emission sources(s) specified herein. All monitoring, testing and reporting required by this AOS condition, will be deferred until fuel oil is used as a combustion fuel. If fuel oil is used as a combustion fuel in this permit term, then all required reporting for this AOS condition, will be submitted at the earlier date, of either the next regularly scheduled report date or before the end of the permit term. AOS status shall be included in the Semi Annual and the Annual Compliance Reports.

Manufacturer Name/Model Number: Rosemount 951E

Parameter Monitored: AMMONIA

Upper Permit Limit: 3.0 parts per million by volume
(dry, corrected to 15% O2)

Reference Test Method: See description

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 51: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 201-6.5

Item 51.1:

The Compliance Certification activity will be performed for the facility:

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



The Compliance Certification applies to:

Emission Unit: 1-GTDBS
Process: G02

Emission Unit: 1-GTDBS
Process: GB3

Regulated Contaminant(s):
CAS No: 007664-41-7 AMMONIA

Item 51.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Continuous emission monitor (CEM) utilizing a NO_x analyzer equipped with a NH₃ to NO_x converter. NH₃ emissions are calculated as the difference between the NO_x readings measured after the converter and the stack NO_x readings.

OPERATIONAL FLEXIBILITY

ALTERNATE OPERATING SCENARIO (AOS)

AOS is allowed as a permitting scenario by 6 NYCRR Part 201-6.5(f). Rensselaer Cogen proposes that this condition be designated as an AOS. The Department accepts this proposal. This AOS condition is specific to the use of fuel oil as a combustion fuel by the targeted facility, or emission unit(s) or emission point(s) or process (es) or emission sources(s) specified herein. All monitoring, testing and reporting required by this AOS condition, will be deferred until fuel oil is used as a combustion fuel. If fuel oil is used as a combustion fuel in this permit term, then all required reporting for this AOS condition, will be submitted at the earlier date, of either the next regularly scheduled report date or before the end of the permit term. AOS status shall be included in the Semi Annual and the Annual Compliance Reports.

Manufacturer Name/Model Number: Rosemount 951E

Parameter Monitored: AMMONIA

Upper Permit Limit: 3.1 pounds per hour

Reference Test Method: See description

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Condition 52: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 201-6.5

Item 52.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-GTDBS

Process: GB2

Regulated Contaminant(s):

CAS No: 007664-41-7 AMMONIA

Item 52.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Continuous emission monitor (CEM) utilizing a NO_x analyzer equipped with a NH₃ to NO_x converter. NH₃ emissions are calculated as the difference between the NO_x readings measured after the converter and the stack NO_x readings.

OPERATIONAL FLEXIBILITY

ALTERNATE OPERATING SCENARIO (AOS)

AOS is allowed as a permitting scenario by 6 NYCRR Part 201-6.5(f). Rensselaer Cogen proposes that this condition be designated as an AOS. The Department accepts this proposal. This AOS condition is specific to the use of fuel oil as a combustion fuel by the targeted facility, or emission unit(s) or emission point(s) or process (es) or emission sources(s) specified herein. All monitoring, testing and reporting required by this AOS condition, will be deferred until fuel oil is used as a combustion fuel. If fuel oil is used as a combustion fuel in this permit term, then all required reporting for this AOS condition, will be submitted at the earlier date, of either the next regularly scheduled report date or before the end of the permit term. AOS status shall be included in the Semi Annual and the Annual Compliance Reports.

Manufacturer Name/Model Number: Rosemount 951E

Parameter Monitored: AMMONIA

Upper Permit Limit: 3.0 parts per million by volume
(dry, corrected to 15% O₂)

Reference Test Method: See description

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 53: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 201-6.5

Item 53.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-GTDBS

Process: GB2

Regulated Contaminant(s):

CAS No: 007664-41-7 AMMONIA

Item 53.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Continuous emission monitor (CEM) utilizing a NOx analyzer equipped with a NH3 to NOx converter. NH3 emissions are calculated as the difference between the NOx readings measured after the converter and the stack NOx readings.

OPERATIONAL FLEXIBILITY

ALTERNATE OPERATING SCENARIO (AOS)

AOS is allowed as a permitting scenario by 6 NYCRR Part 201-6.5(f). Rensselaer Cogen proposes that this condition be designated as an AOS. The Department accepts this proposal. This AOS condition is specific to the use of fuel oil as a combustion fuel by the targeted facility, or emission unit(s) or emission point(s) or process (es) or emission sources(s) specified herein. All monitoring, testing and reporting required by this AOS condition, will be deferred until fuel oil is used as a combustion fuel. If fuel oil is used as a combustion fuel in this permit term, then all required reporting for this AOS condition, will be submitted at the earlier date, of either the next regularly scheduled report date or before the end of the permit term. AOS status shall be included in the Semi Annual and the Annual Compliance Reports.

Manufacturer Name/Model Number: Rosemount 951E

Parameter Monitored: AMMONIA

Upper Permit Limit: 3.1 pounds per hour

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Reference Test Method: See description

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 54: Compliance Certification
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 201-6.5

Item 54.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-GTDBS

Process: G01

Emission Unit: 1-GTDBS

Process: GB1

Regulated Contaminant(s):

CAS No: 007664-41-7 AMMONIA

Item 54.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Continuous emission monitor (CEM) utilizing a NO_x analyzer equipped with a NH₃ to NO_x converter. NH₃ emissions are calculated as the difference between the NO_x readings measured after the converter and the stack NO_x readings.

Manufacturer Name/Model Number: Rosemount 951E

Parameter Monitored: AMMONIA

Upper Permit Limit: 10.7 pounds per hour

Reference Test Method: See description

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 55: Capping Monitoring Condition
Effective between the dates of 04/19/2011 and 04/18/2016

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 55.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

40 CFR 52.21

Item 55.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 55.3:

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.

Item 55.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 55.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 55.6:

The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: 1-GTDBS

Process: GB2

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 55.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Continuous mass emission rate of NO_x from 1GTDBS must be monitored.



OPERATIONAL FLEXIBILITY

ALTERNATE OPERATING SCENARIO (AOS)

AOS is allowed as a permitting scenario by 6 NYCRR Part 201-6.5(f). Rensselaer Cogen proposes that this condition be designated as an AOS. The Department accepts this proposal. This AOS condition is specific to the use of fuel oil as a combustion fuel by the targeted facility, or emission unit(s) or emission point(s) or process (es) or emission sources(s) specified herein. All monitoring, testing and reporting required by this AOS condition, will be deferred until fuel oil is used as a combustion fuel. If fuel oil is used as a combustion fuel in this permit term, then all required reporting for this AOS condition, will be submitted at the earlier date, of either the next regularly scheduled report date or before the end of the permit term. AOS status shall be included in the Semi Annual and the Annual Compliance Reports.

Manufacturer Name/Model Number: Rosemount 951C

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 83.0 pounds per hour

Reference Test Method: 40 CFR 60 Appendix B&F

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 56: Capping Monitoring Condition
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 56.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

40 CFR 52.21

Item 56.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 56.3:

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,

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



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 56.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 56.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 56.6:

The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: 1-GTDBS
Process: GB2

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 56.7:

Compliance Certification shall include the following monitoring:

Capping: Yes
Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)
Monitoring Description:
Continuous mass emission rate of NO_x from 1GTDBS must be monitored.

OPERATIONAL FLEXIBILITY
ALTERNATE OPERATING SCENARIO (AOS)
AOS is allowed as a permitting scenario by 6 NYCRR Part 201-6.5(f). Rensselaer Cogen proposes that this condition be designated as an AOS. The Department accepts this proposal. This AOS condition is specific to the use of fuel oil as a combustion fuel by the targeted facility, or emission unit(s) or emission point(s) or process (es) or emission sources(s) specified herein. All monitoring, testing and reporting required by this AOS condition, will be deferred until fuel oil is used as a combustion fuel. If fuel oil is used as a combustion fuel in this permit term, then all required reporting for this AOS condition, will be submitted at the earlier date, of either the next regularly scheduled report date or before the end of the permit term. AOS status shall be included in the Semi Annual and the Annual Compliance Reports.

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Manufacturer Name/Model Number: Rosemount 951C
Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 83.0 pounds per hour
Reference Test Method: 40 CFR 60 Appendix B&F
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2011.
Subsequent reports are due every 6 calendar month(s).

Condition 57: Capping Monitoring Condition
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 57.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

40 CFR 52.21

Item 57.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 57.3:

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.

Item 57.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 57.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 57.6:

The Compliance Certification activity will be performed for the Facility.

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 57.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

The sulfur content of the fuel burned at the facility
shall not exceed 0.05 percent by weight.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.05 percent by weight

Monitoring Frequency: PER DELIVERY

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 58: Capping Monitoring Condition

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 58.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

40 CFR 52.21

Item 58.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 58.3:

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.

Item 58.4:

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 58.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 58.6:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 58.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

Total fuel oil (#2 oil) firing in the duct burners shall not exceed 1.24 x 10⁶ gallons per year calculated on a daily rolling basis.

OPERATIONAL FLEXIBILITY

ALTERNATE OPERATING SCENARIO (AOS)

AOS is allowed as a permitting scenario by 6 NYCRR Part 201-6.5(f). Rensselaer Cogen proposes that this condition be designated as an AOS. The Department accepts this proposal. This AOS condition is specific to the use of fuel oil as a combustion fuel by the targeted facility, or emission unit(s) or emission point(s) or process (es) or emission sources(s) specified herein. All monitoring, testing and reporting required by this AOS condition, will be deferred until fuel oil is used as a combustion fuel. If fuel oil is used as a combustion fuel in this permit term, then all required reporting for this AOS condition, will be submitted at the earlier date, of either the next regularly scheduled report date or before the end of the permit term. AOS status shall be included in the Semi Annual and the Annual Compliance Reports.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: NUMBER 2 OIL

Upper Permit Limit: 1.24 million gallons per year

Monitoring Frequency: DAILY

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 59: Capping Monitoring Condition

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 59.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

40 CFR 52.21

Item 59.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 59.3:

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.

Item 59.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 59.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 59.6:

The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: 1-GTDBS
Process: G01

Emission Unit: 1-GTDBS
Process: GB1

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 59.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Continuous mass emission rate of NO_x from 1-GTDBS must be monitored.

Manufacturer Name/Model Number: Rosemount 951C

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 26.0 pounds per hour

Reference Test Method: 40 CFR 60 Appendix B&F

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 60: Capping Monitoring Condition

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 60.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

40 CFR 52.21

Item 60.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 60.3:

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.

Item 60.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 60.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 60.6:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 60.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Total fuel oil (#2 oil) firing in the gas turbine shall not exceed 8.14 x 10⁶ gallons per year calculated on a daily rolling basis.

OPERATIONAL FLEXIBILITY

ALTERNATE OPERATING SCENARIO (AOS)

AOS is allowed as a permitting scenario by 6 NYCRR Part 201-6.5(f). Rensselaer Cogen proposes that this condition be designated as an AOS. The Department accepts this proposal. This AOS condition is specific to the use of fuel oil as a combustion fuel by the targeted facility, or emission unit(s) or emission point(s) or process (es) or emission sources(s) specified herein. All monitoring, testing and reporting required by this AOS condition, will be deferred until fuel oil is used as a combustion fuel. If fuel oil is used as a combustion fuel in this permit term, then all required reporting for this AOS condition, will be submitted at the earlier date, of either the next regularly scheduled report date or before the end of the permit term. AOS status shall be included in the Semi Annual and the Annual Compliance Reports.

Parameter Monitored: NUMBER 2 OIL

Upper Permit Limit: 8.14 million gallons per year

Monitoring Frequency: DAILY

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Condition 61: Capping Monitoring Condition
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 61.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

40 CFR 52.21

Item 61.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 61.3:

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.

Item 61.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 61.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 61.6:

The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: 1-GTDBS
Process: G02

Emission Unit: 1-GTDBS
Process: GB3

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 61.7:

Compliance Certification shall include the following monitoring:

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Continuous mass emission rate of NO_x from 1GTDBS must be monitored.

OPERATIONAL FLEXIBILITY

ALTERNATE OPERATING SCENARIO (AOS)

AOS is allowed as a permitting scenario by 6 NYCRR Part 201-6.5(f). Rensselaer Cogen proposes that this condition be designated as an AOS. The Department accepts this proposal. This AOS condition is specific to the use of fuel oil as a combustion fuel by the targeted facility, or emission unit(s) or emission point(s) or process (es) or emission sources(s) specified herein. All monitoring, testing and reporting required by this AOS condition, will be deferred until fuel oil is used as a combustion fuel. If fuel oil is used as a combustion fuel in this permit term, then all required reporting for this AOS condition, will be submitted at the earlier date, of either the next regularly scheduled report date or before the end of the permit term. AOS status shall be included in the Semi Annual and the Annual Compliance Reports.

Manufacturer Name/Model Number: Rosemount 951C

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 83.0 pounds per hour

Reference Test Method: 40 CFR 60 Appendix B&F

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 62: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR Subpart 202-1

Item 62.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 62.2:

Compliance Certification shall include the following monitoring:

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Compliance with emission limits are based on a one hour average unless otherwise specified in the permit.
Emission limits based on heat input correspond to the higher heating value (HHV) of the fuel burned unless otherwise specified.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 63: Acceptable procedures
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 202-1.3

Item 63.1:

Emission testing, sampling, and analytical determinations to ascertain compliance with this Subpart shall be conducted in accordance with test methods acceptable to the commissioner.

Condition 64: Air pollution prohibited
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 211.1

Item 64.1:

No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.

Condition 65: Temporary variances.
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 225-1.4

Item 65.1:

Upon application by an air contamination source owner or a fuel supplier the commissioner may issue an order granting a temporary variance from the provisions of 6 NYCRR Part 225-1 where it can be shown, to the commissioner's satisfaction, that there is an insufficient supply of conforming fuel, either:

(1) of the proper type required for use in a particular air contamination source; or

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



(2) generally throughout an area of the State.

Condition 66: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 225-1.7 (d)

Item 66.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 66.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Data collected pursuant to this section must be tabulated and summarized in a form acceptable to the commissioner, and must be retained for three years. The source owner must furnish such records and summaries upon request of the Commissioner.

Monitoring Frequency: PER DELIVERY

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 67: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 225-1.8

Item 67.1:

The Compliance Certification activity will be performed for the Facility.

Item 67.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

An owner or operator of a facility which purchases and fires coal and/or fuel oil shall compile and retain records of the following information:

- a. fuel analyses and data on the quantities of all residual and distillate oil and coal received, burned or sold;
- b. the names of all purchasers of all residual and

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



distillate oil and coal sold;
c. any results of stack sampling, stack monitoring and other procedures used to ensure compliance with the provisions of 6 NYCRR Part 225-1.
Fuel analyses must contain, as a minimum, data on the sulfur content, specific gravity and heating value of any residual oil, distillate oil or coal received, burned or sold. Ash content shall also be included in the fuel analyses for any residual oil or coal received, burned or sold.

These records shall be retained for a minimum period of three years. If the facility is subject to Title V requirements the minimum record retention period shall be five years. The records shall be made available for inspection by department staff during normal business hours. In addition, copies of such records shall be furnished to department staff upon request. All required sampling, compositing and analysis of fuel samples must be done in accordance with methods acceptable to the department.

Monitoring Frequency: PER DELIVERY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2012.
Subsequent reports are due every 12 calendar month(s).

Condition 68: Compliance Certification
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 227-1.3 (a)

Item 68.1:
The Compliance Certification activity will be performed for the Facility.

Item 68.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

No person shall operate a stationary combustion installation which exhibits greater than 20 percent opacity (six minute average), except for one 6 minute period per hour of not more than 27 percent opacity. The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

The permittee will conduct observations of visible emissions from the emission unit, process, etc. to which

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



this condition applies at the monitoring frequency stated below while the process is in operation. The permittee will investigate, in a timely manner, any instance where there is cause to believe that visible emissions have the potential to exceed the opacity standard.

The permittee shall investigate the cause, make any necessary corrections, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the standard continue, the permittee will conduct a Method 9 assessment within the next operating day of the sources associated with the potential noncompliance to determine the degree of opacity and will notify the NYSDEC if the Method 9 test indicates that the opacity standard is not met.

Records of visible emissions observations (or any follow-up Method 9 tests), investigations and corrective actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition, it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 69: Permit Requirements

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 243-1.6 (a)

Item 69.1:

This Condition applies to:

Emission Unit: 1GTDBS

Item 69.2:

The CAIR designated representative of each CAIR NO_x Ozone Season source shall:

- (i) submit to the department a complete CAIR permit application under section 243-3.3 in accordance with the deadlines specified in section 243-3.2; and
- (ii) submit in a timely manner any supplemental information that the department determines is

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



necessary in order to review a CAIR permit application and issue or deny a CAIR permit.

The owners and operators of each CAIR NOx Ozone Season source shall have a CAIR permit issued by the department under Subpart 243-3 for the source and operate the source and the unit in compliance with such CAIR permit.

Condition 70: Monitoring requirements
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 243-1.6 (b)

Item 70.1:

This Condition applies to:

Emission Unit: 1GTDBS

Item 70.2:

The emissions measurements recorded and reported in accordance with Subpart 243-8 shall be used to determine compliance by each CAIR NOx Ozone Season source with the CAIR NOx Ozone Season emissions limitation under subdivision (c) of this section.

Condition 71: NOx Ozone Season Emission Requirements
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 243-1.6 (c)

Item 71.1:

This Condition applies to:

Emission Unit: 1GTDBS

Item 71.2:

As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NOx Ozone Season source and each CAIR NOx Ozone Season unit at the source shall hold, in the source's compliance account, CAIR NOx Ozone Season allowances available for compliance deductions for the control period under section 243-6.5(a) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NOx Ozone Season units at the source, as determined in accordance with Subpart 243-8. The CAIR NOx ozone season is the period beginning May 1 of a calendar year, except as provided in section 243-1.6(c)(2), and ending on September 30 of the same year, inclusive.

A CAIR NOx Ozone Season unit shall be subject to the requirements under paragraph (c)(1) of this section for the control period starting on the later of May 1, 2009 or the deadline for meeting the unit's monitor certification requirements under sections 243-8.1(b)(1), (2), (3), or (7) and for each control period thereafter.

A CAIR NOx Ozone Season allowance shall not be deducted, for compliance with the requirements under paragraph (c)(1) of this section, for a control period in a calendar year before the year for which the CAIR NOx Ozone Season allowance was allocated.

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



CAIR NOx Ozone Season allowances shall be held in, deducted from, or transferred into or among CAIR NOx Ozone Season Allowance Tracking System accounts in accordance with Subparts 243-6, 243-7, and 243-9.

A CAIR NOx Ozone Season allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NOx Ozone Season Trading Program. No provision of the CAIR NOx Ozone Season Trading Program, the CAIR permit application, the CAIR permit, or an exemption under section 243-1.5 and no provision of law shall be construed to limit the authority of the State or the United States to terminate or limit such authorization.

A CAIR NOx Ozone Season allowance does not constitute a property right.

Upon recordation by the Administrator under Subpart 243-6, 243-7, or 243-9, every allocation, transfer, or deduction of a CAIR NOx Ozone Season allowance to or from a CAIR NOx Ozone Season source's compliance account is incorporated automatically in any CAIR permit of the source.

Condition 72: Excess emission requirements
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 243-1.6 (d)

Item 72.1:

This Condition applies to:

Emission Unit: 1GTDBS

Item 72.2:

If a CAIR NOx Ozone Season source emits nitrogen oxides during any control period in excess of the CAIR NOx Ozone Season emissions limitation, then:

(1) the owners and operators of the source and each CAIR NOx Ozone Season unit at the source shall surrender the CAIR NOx Ozone Season allowances required for deduction under section 243-6.5(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Act or applicable State law; and

(2) each ton of such excess emissions and each day of such control period shall constitute a separate violation of this Subpart, the Act, and applicable State law.

Condition 73: Recordkeeping and reporting requirements
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 243-1.6 (e)

Item 73.1:

This Condition applies to:

Emission Unit: 1GTDBS

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Item 73.2:

Unless otherwise provided, the owners and operators of the CAIR NOx Ozone Season source and each CAIR NOx Ozone Season unit at the source shall keep on site at the source each of the following documents for a period of five years from the date the document is created. This period may be extended for cause, at any time before the end of five years, in writing by the department or the Administrator.

(i) The certificate of representation under section 243-2.4 for the CAIR designated representative for the source and each CAIR NOx Ozone Season unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such five-year period until such documents are superseded because of the submission of a new certificate of representation under section 243-2.4 changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with Subpart 243-8, provided that to the extent that Subpart 243-8 provides for a three-year period for recordkeeping, the three-year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NOx Ozone Season Trading Program.

(iv) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NOx Ozone Season Trading Program or to demonstrate compliance with the requirements of the CAIR NOx Ozone Season Trading Program.

Condition 74: Authorization and responsibilities of CAIR designated representative

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 243-2.1

Item 74.1:

This Condition applies to:

Emission Unit: 1GTDBS

Item 74.2:

Except as provided under section 243-2.2, each CAIR NOx Ozone Season source, including all CAIR NOx Ozone Season units at the source, shall have one and only one CAIR designated representative, with regard to all matters under the CAIR NOx Ozone Season Trading Program concerning the source or any CAIR NOx Ozone Season unit at the source.

The CAIR designated representative of the CAIR NOx Ozone Season source shall be selected by an agreement binding on the owners and operators of the source and all CAIR NOx Ozone Season units at the source and shall act in accordance with the certification statement in section 243-2.4(a)(4)(iv).

Upon receipt by the Administrator of a complete certificate of representation under section 243-2.4, the CAIR designated representative of the source shall represent and, by his or her representations, actions, inactions, or submissions, legally bind each owner and operator of the CAIR NOx Ozone Season source represented and each CAIR NOx Ozone Season unit at the

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



source in all matters pertaining to the CAIR NOx Ozone Season Trading Program, notwithstanding any agreement between the CAIR designated representative and such owners and operators. The owners and operators shall be bound by any decision or order issued to the CAIR designated representative by the department, the Administrator, or a court regarding the source or unit.

No CAIR permit will be issued, no emissions data reports will be accepted, and no CAIR NOx Ozone Season Allowance Tracking System account will be established for a CAIR NOx Ozone Season unit at a source, until the Administrator has received a complete certificate of representation under section 243-2.4 for a CAIR designated representative of the source and the CAIR NOx Ozone Season units at the source.

Each submission under the CAIR NOx Ozone Season Trading Program shall be submitted, signed, and certified by the CAIR designated representative for each CAIR NOx Ozone Season source on behalf of which the submission is made. Each such submission shall include the following certification statement by the CAIR designated representative: "I am authorized to make this submission on behalf of the owners and operators of the source or units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."

Condition 75: Certificate of representation
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 243-2.4

Item 75.1:

Unless otherwise required by the department or the Administrator, documents of agreement referred to in the certificate of representation shall not be submitted to the department or the Administrator. Neither the department nor the Administrator shall be under any obligation to review or evaluate the sufficiency of such documents, if submitted.

Condition 76: General requirements
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 243-8.1

Item 76.1:

The owners and operators, and to the extent applicable, the CAIR designated representative, of a CAIR NOx Ozone Season unit, shall comply with the monitoring, recordkeeping, and reporting requirements as provided in this Subpart and in Subpart H of 40 CFR Part 75. For purposes of complying with such requirements, the definitions in section 243-1.2 and in 40 CFR 72.2 shall apply, and the terms "affected unit," "designated representative," and "continuous emission monitoring system" (or "CEMS") in 40 CFR Part 75 shall be deemed to refer to the terms "CAIR NOx Ozone Season unit," "CAIR designated representative," and "continuous emission monitoring system" (or "CEMS") respectively, as defined in section 243-1.2. The owner or operator of a unit that is not a CAIR NOx Ozone Season unit but that is monitored under 40 CFR 75.72(b)(2)(ii) shall comply with the same monitoring, recordkeeping, and reporting

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



requirements as a CAIR NOx Ozone Season unit.

'Requirements for installation, certification, and data accounting.' The owner or operator of each CAIR NOx Ozone Season unit shall:

- (1) install all monitoring systems required under this Subpart for monitoring NOx mass emissions and individual unit heat input (including all systems required to monitor NOx emission rate, NOx concentration, stack gas moisture content, stack gas flow rate, CO2 or O2 concentration, and fuel flow rate, as applicable, in accordance with 40 CFR 75.71 and 40 CFR 75.72);
- (2) successfully complete all certification tests required under section 243-8.2 and meet all other requirements of this Subpart and 40 CFR Part 75 applicable to the monitoring systems under paragraph 243-8.1(a)(1); and
- (3) record, report, and quality-assure the data from the monitoring systems under paragraph (a)(1) of this section.

Condition 77: Prohibitions
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 243-8.1

Item 77.1:
This Condition applies to:

Emission Unit: 1GTDBS

Item 77.2:
No owner or operator of a CAIR NOx Ozone Season unit shall use any alternative monitoring system, alternative reference method, or any other alternative to any requirement of this Subpart without having obtained prior written approval in accordance with section 243-8.6.

No owner or operator of a CAIR NOx Ozone Season unit shall operate the unit so as to discharge, or allow to be discharged, NOx emissions to the atmosphere without accounting for all such emissions in accordance with the applicable provisions of this Subpart and 40 CFR Part 75.

No owner or operator of a CAIR NOx Ozone Season unit shall disrupt the continuous emission monitoring system, any portion thereof, or any other approved emission monitoring method, and thereby avoid monitoring and recording NOx mass emissions discharged into the atmosphere or heat input, except for periods of recertification or periods when calibration, quality assurance testing, or maintenance is performed in accordance with the applicable provisions of this Subpart and 40 CFR Part 75.

No owner or operator of a CAIR NOx Ozone Season unit shall retire or permanently discontinue use of the continuous emission monitoring system, any component thereof, or any other approved monitoring system under this Subpart, except under any one of the following circumstances:

- (i) during the period that the unit is covered by an exemption under section 243-1.5 that is in effect;

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



(ii) the owner or operator is monitoring emissions from the unit with another certified monitoring system approved, in accordance with the applicable provisions of this Subpart and 40 CFR Part 75, by the department for use at that unit that provides emission data for the same pollutant or parameter as the retired or discontinued monitoring system; or
(iii) the CAIR designated representative submits notification of the date of certification testing of a replacement monitoring system for the retired or discontinued monitoring system in accordance with section 243-8.2(d)(3)(i).

Condition 78: Quarterly reports

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 243-8.5 (d)

Item 78.1:

This Condition applies to:

Emission Unit: 1GTDBS

Item 78.2:

The CAIR designated representative shall submit quarterly reports, as follows:

If the CAIR NOx Ozone Season unit is subject to an Acid Rain emissions limitation or a CAIR NOx emissions limitation or if the owner or operator of such unit chooses to report on an annual basis under this Subpart, the CAIR designated representative shall meet the requirements of Subpart H of 40 CFR Part 75 (concerning monitoring of NOx mass emissions) for such unit for the entire year and shall report the NOx mass emissions data and heat input data for such unit, in an electronic quarterly report in a format prescribed by the Administrator, for each calendar quarter beginning with:

(i) for a unit that commences commercial operation before July 1, 2007, the calendar quarter covering May 1, 2008 through June 30, 2008;

(ii) for a unit that commences commercial operation on or after July 1, 2007, the calendar quarter corresponding to the earlier of the date of provisional certification or the applicable deadline for initial certification under section 243-8.1(b), unless that quarter is the third or fourth quarter of 2007 or the first quarter of 2008, in which case reporting shall commence in the quarter covering May 1, 2008 through June 30, 2008.

The CAIR designated representative shall submit each quarterly report to the Administrator within 30 days following the end of the calendar quarter covered by the report. Quarterly reports shall be submitted in the manner specified in 40 CFR 75.73(f).

For CAIR NOx Ozone Season units that are also subject to an Acid Rain emissions limitation or the CAIR NOx Annual Trading Program, CAIR SO2 Trading Program, or the Mercury Reduction Program for Coal-Fired Electric Utility Steam Generating Units (6 NYCRR Part 246), quarterly reports shall include the applicable data and information required by Subparts F through I of 40 CFR Part 75 as applicable, in addition to the NOx mass emission data, heat input data, and other information required by this Subpart.

Condition 79: Compliance certification

Effective between the dates of 04/19/2011 and 04/18/2016

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Applicable Federal Requirement:6 NYCRR 243-8.5 (e)

Item 79.1:

This Condition applies to:

Emission Unit: 1GTDBS

Item 79.2:

The CAIR designated representative shall submit to the Administrator a compliance certification (in a format prescribed by the Administrator) in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The certification shall state that:

- (1) the monitoring data submitted were recorded in accordance with the applicable requirements of this Subpart and 40 CFR Part 75, including the quality assurance procedures and specifications;
- (2) for a unit with add-on NOx emission controls and for all hours where NOx data are substituted in accordance with 40 CFR 75.34(a)(1), the add-on emission controls were operating within the range of parameters listed in the quality assurance/quality control program under appendix B to 40 CFR Part 75 and the substitute data values do not systematically underestimate NOx emissions; and
- (3) for a unit that is reporting on a control period basis under subparagraph (d)(2)(ii) of this section, the NOx emission rate and NOx concentration values substituted for missing data under Subpart D of 40 CFR Part 75 are calculated using only values from a control period and do not systematically underestimate NOx emissions.

Condition 80: CAIR General and Permit Requirements
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR Subpart 244-1

Item 80.1:

This Condition applies to:

Emission Unit: 1GTDBS

Item 80.2:

- (1) As of midnight of March 1, or midnight of the first business day thereafter if March 1 is not a business day, the owners and operators shall hold, in their compliance account, CAIR NOx allowances available for compliance deductions for the previous control period (January 1 through December 31), in an amount not less than the total tons of nitrogen oxides emissions from all CAIR NOx units at the source during that control period. (244-1.6(c)(1) , 244-1.2(b)(5), 244-1.2(b)(36))
- (2) A CAIR NOx allowance shall not be deducted, for compliance with the requirements under paragraph (2) of this section, for a control period in a calendar year before the year for which

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



the CAIR NOx allowance was allocated. (244-1.6(c)(3))

(3) 'Excess emissions requirements.' If a CAIR NOx source emits nitrogen oxides during any control period in excess of the CAIR NOx emissions limitation, the owners and operators of the CAIR NOx source shall surrender the CAIR NOx allowances required for deduction under 6NYCRR Part 244-6.5(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Act or applicable State law. Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this permit, the Act, and applicable State law. (244-1.6(d))

(4) Unless otherwise provided, the owners and operators of the CAIR NOx source shall keep on site each of the following documents for a period of five years from the date the document is created. This period may be extended for cause, at any time before the end of five years, in writing by the department or the Administrator:

(i) The certificate of representation under 6NYCRR Part 244-2.4 for the CAIR designated representative for the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such five year period until such documents are superseded because of the submission of a new certificate of representation under 6NYCRR Part 244-2.4 changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with 6NYCRR Part 244-8, provided that to the extent that 6NYCRR Part 244-8 provides for a three year period for recordkeeping, the three year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NOx Annual Trading Program.

(iv) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NOx Annual Trading Program or to demonstrate compliance with the requirements of the CAIR NOx Annual Trading Program. (244-1.6(e))

Condition 81: CAIR NOx Annual Trading Program General Conditions
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR Subpart 244-1

Item 81.1:

This Condition applies to:

Emission Unit: 1GTDBS

Item 81.2:

1) As of midnight of March 1, or midnight of the first business day thereafter if March 1 is not a business day, the owners and operators shall hold, in their compliance account, Clean Air Interstate Rule (CAIR) NOx allowances available for compliance deductions for the previous control period (January 1 through December 31), in an amount not less than the total tons of nitrogen oxides emissions from all CAIR NOx units at the source during that control period. A CAIR NOx allowance shall not be deducted for a control period in a calendar year before the year for which the CAIR NOx allowance was allocated. [244-1.6(c)(1), 244-1.2(b)(5),

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



244-1.2(b)(36), 244-1.6(c)(3)]

2) The owners and operators shall hold in their compliance account, CAIR NOx allowances available for compliance deductions for the control period starting on the later of January 1, 2009 or the deadline for meeting a CAIR NOx unit's monitor certification requirements under section 244-8.1(b)(1), (2), or (5) and for each control period thereafter. [244-1.6(c)(2)]

3) If a CAIR NOx source emits nitrogen oxides during any control period in excess of the CAIR NOx emissions limitation, the owners and operators of the CAIR NOx source shall surrender the CAIR NOx allowances required for deduction under 6NYCRR Part 244-6.5(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Act or applicable State law. Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this permit, the Act, and applicable State law. [(244-1.6(d)]

4) Unless otherwise provided, the owners and operators of the CAIR NOx source shall keep on site each of the following documents for a period of five years from the date the document is created. This period may be extended for cause, at any time before the end of five years, in writing by the department or the Administrator: [244-1.6(e)]

(i) The certificate of representation under 6NYCRR Part 244-2.4 for the CAIR designated representative for the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such five year period until such documents are superseded because of the submission of a new certificate of representation under 6NYCRR Part 244-2.4 changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with 6NYCRR Part 244-8, provided that to the extent that 6NYCRR Part 244-8 provides for a three year period for recordkeeping, the three year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NOx Annual Trading Program.

(iv) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NOx Annual Trading Program or to demonstrate compliance with the requirements of the CAIR NOx Annual Trading Program.

Condition 82: Designated CAIR Representative
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR Subpart 244-2

Item 82.1:

This Condition applies to:

Emission Unit: 1GTDBS

Item 82.2:

1) Each Clean Air Interstate Rule (CAIR) NOx source shall have one CAIR designated representative and may have one alternate representative, as per 6NYCRR Part 244-2.2, with regard to all matters under the CAIR NOx Annual Trading Program. The CAIR designated representative shall be selected by an agreement binding on the owners and operators of the source and act in accordance with the certification statement in 6NYCRR Part 244-2.4(a)(4)(iv). Upon receipt by the Administrator of a complete certificate of representation under 6NYCRR

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Part 244-2.4, the CAIR designated representative of the source shall represent and, by his or her representations, actions, inactions, or submissions, legally bind each owner and operator of the CAIR NOx source represented in all matters pertaining to the CAIR NOx Annual Trading Program, notwithstanding any agreement between the CAIR designated representative and such owners and operators. The owners and operators shall be bound by any decision or order issued to the CAIR designated representative by the department, the Administrator, or a court regarding the source. [244-2.1(a), (b) & (c)]

(2) Each submission under the CAIR NOx Annual Trading Program shall be submitted, signed, and certified by the CAIR designated representative for each CAIR NOx source on behalf of which the submission is made. Each such submission shall include the following certification statement by the CAIR designated representative: "I am authorized to make this submission on behalf of the owners and operators of the source or units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment." [244-2.1(e)]

Condition 83: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR Subpart 244-8

Item 83.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-GTDBS

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 83.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Monitoring and Reporting NOx emissions

(1) The owners and operators, and to the extent applicable, the CAIR designated representative shall comply with all recordkeeping and reporting requirements in this condition, the applicable recordkeeping and reporting requirements under 40 CFR 75, and the requirements of 6NYCRR Part 244-2.1(e)(1).

(2) The CAIR designated representative shall submit quarterly reports of the the NOx mass emissions data and heat input data for each CAIR NOx unit, in an electronic



quarterly report in a format prescribed by the Administrator, for each calendar quarter beginning with the calendar quarter corresponding to the earlier of the date of provisional certification or the applicable deadline for initial certification under 6NYCRR Part 244-8.1(b), unless that quarter is the third or fourth quarter of 2007, in which case reporting shall commence in the quarter covering January 1, 2008 through March 31, 2008.

(3) The CAIR designated representative shall submit each quarterly report to the Administrator within 30 days following the end of the calendar quarter covered by the report. Quarterly reports shall be submitted in the manner specified in 40 CFR 75.73(f).

(4) For CAIR NO_x units that are also subject to an Acid Rain emissions limitation or the CAIR NO_x Ozone Season Trading Program, CAIR SO₂ Trading Program, or the Mercury Reduction Program for Coal-Fired Electric Utility Steam Generating Units (6NYCRR Part 246), quarterly reports shall include the applicable data and information required by Subparts F through I of 40 CFR Part 75 as applicable, in addition to the NO_x mass emission data, heat input data, and other information required by this Subpart.

(5) 'Compliance certification.' The CAIR designated representative shall submit to the Administrator a compliance certification (in a format prescribed by the Administrator) in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The certification shall state that:

(i) the monitoring data submitted were recorded in accordance with the applicable requirements of 6NYCRR Part 244 and 40 CFR Part 75, including the quality assurance procedures and specifications; and

(ii) for a unit with add-on NO_x emission controls and for all hours where NO_x data are substituted in accordance with 40 CFR 75.34(a)(1), the add-on emission controls were operating within the range of parameters listed in the quality assurance/quality control program under appendix B to 40 CFR Part 75 and the substitute data values do not systematically underestimate NO_x emissions.

(6) Whenever any monitoring system fails to meet the quality-assurance and quality-control requirements or data validation requirements of 40 CFR part 75, data shall be

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



substituted using the applicable missing data procedures in Subpart D or Subpart H of, or appendix D or appendix E to 40 CFR part 75. [244-8.3(a)]

(7) Whenever the owner or operator makes a replacement, modification, or change in any certified continuous emission monitoring system under 6NYCRR Part 244-8.1(a)(1) that may significantly affect the ability of the system to accurately measure or record NOx mass emissions or heat input rate or to meet the quality-assurance and quality-control requirements of 40 CFR 75.21 or appendix B to 40 CFR Part 75, the owner or operator shall recertify the monitoring system in accordance with 40 CFR 75.20(b) . Furthermore, whenever the owner or operator makes a replacement, modification, or change to the flue gas handling system or the unit's operation that may significantly change the stack flow or concentration profile, the owner or operator shall recertify each continuous emission monitoring system whose accuracy is potentially affected by the change, in accordance with 40 CFR 75.20(b). Examples of changes to a continuous emission monitoring system that require recertification include replacement of the analyzer, complete replacement of an existing continuous emission monitoring system, or change in location or orientation of the sampling probe or site. Any fuel flowmeter system, and any excepted NOx monitoring system under appendix E to 40 CFR part 75, under 6NYCRR Part 244-8.1(a)(1) are subject to the recertification requirements in 40 CFR 75.20(g)(6). [224-8.2(d)(2)

Monitoring Frequency: CONTINUOUS

Averaging Method: ANNUAL TOTAL

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 3 calendar month(s).

Condition 84: CAIR General and Permit Requirments
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR Subpart 245-1

Item 84.1:

This Condition applies to:

Emission Unit: 1GTDBS

Item 84.2:

(1) Each CAIR SO2 source must have a permit issued by the department pursuant to 6NYCRR

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Parts 201 and 621 of this title; and shall have a CAIR permit issued pursuant to 6NYCRR Part 245-3 by the Department and operate the source in compliance with such CAIR permit. Each CAIR permit must contain all applicable requirements for the CAIR SO₂ Trading Program and shall be a complete and separable portion of the permit. (245-1 and 245-3)

(2) As of midnight of March 1, or midnight of the first business day thereafter (if March 1 is not a business day) for a control period, the owners and operators of each CAIR SO₂ source shall hold, in the source's compliance account, a tonnage equivalent in CAIR SO₂ allowances available for compliance deductions for the control period (January 1 through December 31) as determined in accordance with 6NYCRR Part 245-6.5(a) and (b), not less than the tons of total sulfur dioxide emissions for the control period from all CAIR SO₂ units at the source, as determined in accordance with 6NYCRR Part 245-8. (245-1.2(b)(5), 245-1.6(c)(1), 245-1.2(b)(36))

(3) A CAIR SO₂ allowance shall not be deducted, for compliance with the requirements under paragraph (2) of this section, for a control period in a calendar year before the year for which the CAIR SO₂ allowance was allocated. (245-1.6(c)(3))

(4) 'Excess emissions requirements.' If a CAIR SO₂ source emits sulfur dioxide during any control period in excess of the CAIR SO₂ emissions limitation, the owners and operators of the source shall surrender the CAIR SO₂ allowances required for deduction under 6NYCRR Part 245-6.5(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Act or applicable State law. Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this Subpart, the Act, and applicable State law. (245-1.6(d))

(5) Unless otherwise provided, the owners and operators of the CAIR SO₂ source shall keep on site at the source each of the following documents for a period of five years from the date the document is created. This period may be extended for cause, at any time before the end of five years, in writing by the department or the Administrator:

(i) The certificate of representation under 6NYCRR Part 245-2.4 for the CAIR designated representative for the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such five-year period until such documents are superseded because of the submission of a new certificate of representation under 6NYCRR Part 245-2.4 changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with 6NYCRR Part 245-8, provided that to the extent that 6NYCRR Part 245-8 provides for a three-year period for recordkeeping, the three-year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR SO₂ Trading Program.

(iv) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR SO₂ Trading Program or to demonstrate compliance with the requirements of the CAIR SO₂ Trading Program. (245-1.6(e))

Condition 85: CAIR SO₂ Trading Program General Provisions
Effective between the dates of 04/19/2011 and 04/18/2016



Applicable Federal Requirement:6 NYCRR Subpart 245-1

Item 85.1:

1) As of midnight of March 1, or midnight of the first business day thereafter (if March 1 is not a business day) for a control period, the owners and operators of each Clean Air Interstate Rule (CAIR) SO₂ source shall hold, in the source's compliance account, a tonnage equivalent in CAIR SO₂ allowances available for compliance deductions for the control period (January 1 through December 31) not less than the tons of total sulfur dioxide emissions for the control period from all CAIR SO₂ units at the source. A CAIR SO₂ allowance shall not be deducted, for compliance with the requirements under paragraph (2) of this section, for a control period in a calendar year before the year for which the CAIR SO₂ allowance was allocated.
[(245-1.2(b)(5), 245-1.6(c)(1), 245-1.2(b)(36), 245-1.6(c)(3)]

2) The owners and operators shall hold in their compliance account, CAIR SO₂ allowances available for compliance deductions for the control period starting on the later of January 1, 2010 or the deadline for meeting a CAIR SO₂ unit's monitor certification requirements under section 245-8.1(b)(1), (2), or (5) and for each control period thereafter. [245-1.6(c)(2)]

3) If a CAIR SO₂ source emits sulfur dioxide during any control period in excess of the CAIR SO₂ emissions limitation, the owners and operators of the source shall surrender the CAIR SO₂ allowances required for deduction under 6NYCRR Part 245-6.5(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Act or applicable State law. Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this Subpart, the Act, and applicable State law.
[(245-1.6(d)]

4) Unless otherwise provided, the owners and operators of the CAIR SO₂ source shall keep on site at the source each of the following documents for a period of five years from the date the document is created. This period may be extended for cause, at any time before the end of five years, in writing by the department or the Administrator: [245-1.6(e)]

(i) The certificate of representation under 6NYCRR Part 245-2.4 for the CAIR designated representative for the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such five-year period until such documents are superseded because of the submission of a new certificate of representation under 6NYCRR Part 245-2.4 changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with 6NYCRR Part 245-8, provided that to the extent that 6NYCRR Part 245-8 provides for a three-year period for recordkeeping, the three-year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR SO₂ Trading Program.

(iv) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR SO₂ Trading Program or to demonstrate compliance with the requirements of the CAIR SO₂ Trading Program.

Condition 86: Designated CAIR Representative
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR Subpart 245-2

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Item 86.1:

This Condition applies to:

Emission Unit: 1GTDBS

Item 86.2:

1) Each CAIR SO₂ source shall have one and only one CAIR designated representative and may have one alternate representative, as per 6NYCRR Part 245-2.2, with regard to all matters under the CAIR SO₂ Trading Program. The CAIR designated representative of the CAIR SO₂ source shall be selected by an agreement binding on the owners and operators of the source and all CAIR SO₂ units at the source and shall act in accordance with the certification statement in 6NYCRR Part 245-2.4(a)(4)(iv). Upon receipt by the Administrator of a complete certificate of representation under 6NYCRR Part 245-2.4, the CAIR designated representative of the source shall represent and, by his or her representations, actions, inactions, or submissions, legally bind each owner and operator of the CAIR SO₂ source represented and each CAIR SO₂ unit at the source in all matters pertaining to the CAIR SO₂ Trading Program, notwithstanding any agreement between the CAIR designated representative and such owners and operators. The owners and operators shall be bound by any decision or order issued to the CAIR designated representative by the department, the Administrator, or a court regarding the source or unit. [245-2.1(a), (b) & (c)]

(2) Each submission under the CAIR SO₂ Trading Program shall be submitted, signed, and certified by the CAIR designated representative for each CAIR SO₂ source on behalf of which the submission is made. Each such submission shall include the following certification statement by the CAIR designated representative: "I am authorized to make this submission on behalf of the owners and operators of the source or units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment." [245-2.1(e)]

Condition 87: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR Subpart 245-8

Item 87.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-GTDBS

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 87.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES



Monitoring Description:

Monitoring and Reporting SO₂ emissions:

1) The owners and operators, and to the extent applicable, the Clean Air Interstate Rule (CAIR) designated representative, of a CAIR SO₂ unit, shall comply with the monitoring, recordkeeping, and reporting requirements as provided in Subpart 6 NYCRR Part 245-8 and in 40 CFR Part 75, Subparts F and G. For purposes of complying with such requirements, the definitions in section 245-1.2 and 40 CFR 72.2 shall apply, and the terms "affected unit," "designated representative," and "continuous emission monitoring system" (or "CEMS") in 40 CFR Part 75 shall be deemed to refer to the terms "CAIR SO₂ unit," "CAIR designated representative," and "continuous emission monitoring system" (or "CEMS") respectively, as defined in section 245-1.2. The owner or operator of a unit that is not a CAIR SO₂ unit but that is monitored under 40 CFR 75.16(b)(2) shall comply with the same monitoring, recordkeeping, and reporting requirements as a CAIR SO₂ unit. [245-8.1]

2) The owner or operator of each CAIR SO₂ unit shall:
[245-8.1(a)]

(i) install all monitoring systems required under this Subpart for monitoring SO₂ mass emissions and individual unit heat input (including all systems required to monitor SO₂ concentration, stack gas moisture content, stack gas flow rate, CO₂ or O₂ concentration, and fuel flow rate, as applicable, in accordance with 40 CFR 75.11 and 40 CFR 75.16);

(ii) successfully complete all certification tests required under Part 245-8.2 and meet all other requirements of this section and 40 CFR Part 75 applicable to the monitoring systems under this section; and

(iii) record, report, and quality-assure the data from the monitoring systems under paragraph of this section.

3) The owner or operator shall meet the monitoring system certification and other requirements of section 245-8.1(a)(1) and (2) on or before the following dates. The owner or operator shall record, report, and quality-assure the data from the monitoring systems under section 245-8.1(a)(1) on and after the following dates.
[245-8.1(b)]

(i) For the CAIR SO₂ unit that commences commercial operation before July 1, 2008, by January 1, 2009.

(ii) For the CAIR SO₂ unit that commences commercial operation on or after July 1, 2008, by the later of the following dates: January 1, 2009; or 90 unit operating days or 180 calendar days, whichever occurs first, after



the date on which the unit commences commercial operation.

- 4) Whenever the owner or operator makes a replacement, modification, or change in any certified continuous emission monitoring system under section 245-8.1(a)(1) that may significantly affect the ability of the system to accurately measure or record SO₂ mass emissions or heat input rate or to meet the quality-assurance and quality-control requirements of 40 CFR 75.21 or appendix B to 40 CFR Part 75, the owner or operator shall recertify the monitoring system in accordance with 40 CFR 75.20(b). Furthermore, whenever the owner or operator makes a replacement, modification, or change to the flue gas handling system or the unit's operation that may significantly change the stack flow or concentration profile, the owner or operator shall recertify each continuous emission monitoring system whose accuracy is potentially affected by the change, in accordance with 40 CFR 75.20(b). Examples of changes to a continuous emission monitoring system that require recertification include: replacement of the analyzer, complete replacement of an existing continuous emission monitoring system, or change in location or orientation of the sampling probe or site. Any fuel flowmeter system under section 245-8.1(a)(1) is subject to the recertification requirements in 40 CFR 75.20(g)(6). [245-8.2(d)(2)]
- 5) Whenever any monitoring system fails to meet the quality-assurance and quality-control requirements or data validation requirements of 40 CFR Part 75, data shall be substituted using the applicable missing data procedures in Subpart D of or appendix D to 40 CFR Part 75. [245-8.3(a)]
- 6) The CAIR designated representative shall comply with all recordkeeping and reporting requirements in section 245-8.3, the applicable recordkeeping and reporting requirements in Subparts F and G of 40 CFR Part 75, and the requirements of section 245-2.1(e)(1). [245-8.5(a)]
- 7) The owner or operator of a CAIR SO₂ unit shall comply with requirements of 40 CFR 75.62 for monitoring plans. [245-8.5(b)]
- 8) The CAIR designated representative shall submit an application to the department within 45 days after completing all initial certification or recertification tests required under section 245-8.2, including the information required under 40 CFR 75.63. [245-8.5(c)]
-]



9) The CAIR designated representative shall submit quarterly reports of the SO₂ mass emissions data and heat input data for each CAIR SO₂ unit, in an electronic quarterly report in a format prescribed by the Administrator, for each calendar quarter beginning with: [245-8.5(d)(1)]

i) the calendar quarter covering January 1, 2009 through March 31, 2009 for a unit that commences commercial operation before July 1, 2008; or

ii) for a unit that commences commercial operation on or after July 1, 2008, the calendar quarter corresponding to the earlier of the date of provisional certification or the applicable deadline for initial certification under section 245-8.1(b), unless that quarter is the third or fourth quarter of 2008, in which case reporting shall commence in the quarter covering January 1, 2009 through March 31, 2009.

10) The CAIR designated representative shall submit each quarterly report to the Administrator within 30 days following the end of the calendar quarter covered by the report. Quarterly reports shall be submitted in the manner specified in 40 CFR 75.64. [245-8.5(d)(2)]

11) For CAIR SO₂ units that are also subject to an Acid Rain emissions limitation or the CAIR NO_x Annual Trading Program, CAIR NO_x Ozone Season Trading Program, or the Mercury Reduction Program for Coal-Fired Electric Utility Steam Generating Units (6 NYCRR Part 246), quarterly reports shall include the applicable data and information required by Subparts F through I of 40 CFR Part 75 as applicable, in addition to the SO₂ mass emission data, heat input data, and other information required by this Subpart. [245-8.5(d)(3)]

12) The CAIR designated representative shall submit to the Administrator a compliance certification (in a format prescribed by the Administrator) in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The certification shall state that: [245-8.5(e)]

i) the monitoring data submitted were recorded in accordance with the applicable requirements of this Subpart and 40 CFR Part 75, including the quality assurance procedures and specifications; and

ii) for a unit with add-on SO₂ emission controls and for all hours where SO₂ data are substituted in accordance with 40 CFR 75.34(a)(1), the add-on emission controls were operating within the range of parameters listed in the quality assurance/quality control program under appendix B

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



to 40 CFR Part 75 and the substitute data values do not systematically underestimate SO₂ emissions.

Monitoring Frequency: CONTINUOUS
Averaging Method: ANNUAL TOTAL
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2011.
Subsequent reports are due every 3 calendar month(s).

Condition 88: EPA Region 2 address.
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 40CFR 60.4, NSPS Subpart A

Item 88.1:

All requests, reports, applications, submittals, and other communications to the Administrator pursuant to this part shall be submitted in duplicate to the following address:

Director, Division of Enforcement and Compliance Assistance
USEPA Region 2
290 Broadway, 21st Floor
New York, NY 10007-1886

Copies of all correspondence to the administrator pursuant to this part shall also be submitted to the NYSDEC Regional Office issuing this permit (see address at the beginning of this permit) and to the following address:

NYSDEC
Bureau of Quality Assurance
625 Broadway
Albany, NY 12233-3258

Condition 89: Compliance Certification
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 40CFR 60.42b(j), NSPS Subpart Db

Item 89.1:

The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: 1-GTDBS
Process: BW2

Emission Unit: 1-GTDBS
Process: GB2

Regulated Contaminant(s):
CAS No: 007446-09-5 SULFUR DIOXIDE

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Item 89.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Affected facilities which fire very low sulfur oil shall demonstrate that the oil meets the definition of very low sulfur oil by:

- 1) Following the performance testing procedures in subdivision 60.45b(c) or subdivision 60.45b(d) and following monitoring procedures in subdivision 60.47b(a) or in subdivision 60.47b(b) to determine SO₂ emission rate or fuel oil sulfur content; or
- 2) Maintaining fuel receipts as described in subdivision 60.49b(r).

OPERATIONAL FLEXIBILITY

ALTERNATE OPERATING SCENARIO (AOS)

AOS is allowed as a permitting scenario by 6 NYCRR Part 201-6.5(f). Rensselaer Cogen proposes that this condition be designated as an AOS. The Department accepts this proposal. This AOS condition is specific to the use of fuel oil as a combustion fuel by the targeted facility, or emission unit(s) or emission point(s) or process (es) or emission sources(s) specified herein. All monitoring, testing and reporting required by this AOS condition, will be deferred until fuel oil is used as a combustion fuel.

If fuel oil is used as a combustion fuel in this permit term, then all required reporting for this AOS condition, will be submitted at the earlier date, of either the next regularly scheduled report date or before the end of the permit term. AOS status shall be included in the Semi Annual and the Annual Compliance Reports.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 90: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 40CFR 60.48b(j), NSPS Subpart Db

Item 90.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

CAS No: 0NY075-00-5 PM-10

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Item 90.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The affected facility is not required to install a or operate a COM if it burns only liquid (excluding residual oil) or gaseous fuels with potential SO₂ emission rates of 26 NG/J (0.060 lb/mmBtu) or less, and does not use a post combustion technology to reduce SO₂ or PM emissions. The owner must maintain fuel records of the sulfur content of the fuels burned as described under 40 CFR 60.49b(r)

OPERATIONAL FLEXIBILITY

ALTERNATE OPERATING SCENARIO (AOS)

AOS is allowed as a permitting scenario by 6 NYCRR Part 201-6.5(f). Rensselaer Cogen proposes that this condition be designated as an AOS. The Department accepts this proposal. This AOS condition is specific to the use of fuel oil as a combustion fuel by the targeted facility, or emission unit(s) or emission point(s) or process (es) or emission sources(s) specified herein. All monitoring, testing and reporting required by this AOS condition, will be deferred until fuel oil is used as a combustion fuel. If fuel oil is used as a combustion fuel in this permit term, then all required reporting for this AOS condition, will be submitted at the earlier date, of either the next regularly scheduled report date or before the end of the permit term. AOS status shall be included in the Semi Annual and the Annual Compliance Reports.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 92: Compliance Certification

Effective between the dates of 05/03/2013 and 04/18/2016

Applicable Federal Requirement: 40CFR 63.6625(f), Subpart ZZZZ

Item 92.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-EDGEN

Emission Unit: 1-FPDSL

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Item 92.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Owners or operators of an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing emergency stationary RICE located at an area source of HAP emissions, must install a non-resettable hour meter if one is not already installed.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 91: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 40CFR 63.6640(f)(1), Subpart ZZZZ

Item 91.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-EDGEN

Emission Unit: 1-FPDSL

Item 91.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an existing emergency stationary RICE with a site rating of less than or equal to 500 brake horsepower located at a major source of HAP emissions, a new or reconstructed emergency stationary RICE with a site rating of more than 500 brake horsepower located at a major source of HAP emissions that was installed on or after June 12, 2006, or an existing emergency stationary RICE located at an area source of HAP emissions must operate the emergency stationary RICE according to the requirements in paragraphs (i) through (iii) below. Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (i) through (iii) below, is prohibited. If you do not operate the



engine according to the requirements in paragraphs (i) through (iii) below, the engine will not be considered an emergency engine under this subpart and will need to meet all requirements for non-emergency engines.

(i) There is no time limit on the use of emergency stationary RICE in emergency situations.

(ii) The facility may operate the emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the EPA Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year.

(iii) The facility may operate the emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity; except that owners and operators may operate the emergency engine for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this paragraph, as long as the power provided by the financial arrangement is limited to emergency power.

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

****** Emission Unit Level ******

Condition 93: Emission Point Definition By Emission Unit
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 93.1:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-EDGEN

Emission Point: 00003

Height (ft.): 13

Diameter (in.): 6

NYTMN (km.): 4719.95

NYTME (km.): 602.505

Building: B003

Item 93.2:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-FPDSL

Emission Point: 00004

Height (ft.): 18

Diameter (in.): 6

NYTMN (km.): 4720.019

NYTME (km.): 602.545

Building: B004

Item 93.3:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-GTDBS

Emission Point: 00001

Height (ft.): 150

Diameter (in.): 138

NYTMN (km.): 4719.992

NYTME (km.): 602.508

Building: B001

Item 93.4:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-HWBLR

Emission Point: 00005

Height (ft.): 40

Diameter (in.): 10

NYTMN (km.): 4719.965

NYTME (km.): 602.514

Building: B001

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Item 93.5:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: T-00110

Emission Point: 00002

Height (ft.): 40

Diameter (in.): 8

NYTMN (km.): 4719.933 NYTME (km.): 602.468 Building: B002

Condition 94: Process Definition By Emission Unit

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 94.1:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-EDGEN

Process: DG1

Source Classification Code: 2-01-001-02

Process Description:

Emergency diesel generator engine. DG1 is presently a exempt activity as per 6NYCRR Part 201-3.2(6) and as defined by 6NYCRR Part 200 (cq) Emergency power generating stationary internal combustion engine limiting annual operation to 500 hrs. This exempt status will continue until 5/13/2013 when DG1 will become subject to 40CFR 63 Subpart ZZZZ.

Emission Source/Control: EDGEN - Combustion

Design Capacity: 750 horsepower (mechanical)

Item 94.2:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-FPDSL

Process: FP1

Source Classification Code: 2-02-001-02

Process Description:

Firewater pump diesel engine. 1FPDSL is presently a exempt activity as per 6NYCRR Part 201-3.2(6) and as defined by 6NYCRR Part 200 (cq) Emergency power generating stationary internal combustion engine limiting annual operation to 500 hrs. This exempt status will continue until 5/13/2013 when 1FPDSL will become subject to 40CFR 63 Subpart ZZZZ.

The fire water pump diesel engine shall fire # 2 fuel oil only.

Emission Source/Control: FPDSL - Combustion

Design Capacity: 182 horsepower (mechanical)

Item 94.3:

This permit authorizes the following regulated processes for the cited Emission Unit:

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Emission Unit: 1-GTDBS

Process: BW1

Source Classification Code: 2-02-002-01

Process Description:

Gas turbine and supplemental duct burners both firing natural gas while performing on-line water washing. SCR used for NOx control. On-line gas turbine water washing shall not exceed 500 hours 12 month period.

Emission Source/Control: 000DB - Combustion

Design Capacity: 167 million Btu per hour

Emission Source/Control: 000GT - Combustion

Design Capacity: 655 million Btu per hour

Item 94.4:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-GTDBS

Process: BW2

Source Classification Code: 2-02-001-01

Process Description:

Gas turbine and supplemental duct burners both firing # 2 fuel oil while performing on-line water washing. SCR used for NOx control. On-line gas turbine water washing shall not exceed 500 hours per 12 month period. Total # 2 fuel oil consumption in the gas turbine shall not exceed 8.14×10^6 gallons per year and total # 2 fuel oil consumption in the duct burners shall not exceed 1.24×10^6 gallons per year, both calculated on a daily rolling basis. Duct burners firing fuel oil is proposed as an alternate operating scenario (AOS).

Emission Source/Control: 000DB - Combustion

Design Capacity: 167 million Btu per hour

Emission Source/Control: 000GT - Combustion

Design Capacity: 655 million Btu per hour

Item 94.5:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-GTDBS

Process: BW3

Source Classification Code: 2-02-001-01

Process Description:

Gas turbine firing # 2 fuel oil and supplemental duct burners firing natural gas while performing on-line water washing. SCR used for NOx control. On-line gas turbine water washing shall not exceed 500 hours per 12 month period. Total # 2 oil consumption in the gas turbine shall not exceed 8.14×10^6 gallons per year calculated on a daily rolling basis.

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Emission Source/Control: 000DB - Combustion
Design Capacity: 167 million Btu per hour

Emission Source/Control: 000GT - Combustion
Design Capacity: 655 million Btu per hour

Emission Source/Control: 00SCR - Control
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Item 94.6:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-GTDBS
Process: G01 Source Classification Code: 2-02-002-01
Process Description:
Gas turbine firing natural gas without supplemental duct firing. SCR used for NOx control.

Emission Source/Control: 000GT - Combustion
Design Capacity: 655 million Btu per hour

Emission Source/Control: 00SCR - Control
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Item 94.7:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-GTDBS
Process: G02 Source Classification Code: 2-02-001-01
Process Description:
Gas turbine firing # 2 fuel oil without supplemental duct burners. Total # 2 fuel oil firing in the gas turbine shall not exceed 8.14 x 10⁶ gallons per year, calculated on a daily rolling basis.

Emission Source/Control: 000GT - Combustion
Design Capacity: 655 million Btu per hour

Emission Source/Control: 00SCR - Control
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Item 94.8:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-GTDBS
Process: GB1 Source Classification Code: 2-02-002-01
Process Description:
Gas turbine and supplemental duct burners both firing natural gas. SCR used for NOx control.

Emission Source/Control: 000DB - Combustion
Design Capacity: 167 million Btu per hour

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Emission Source/Control: 000GT - Combustion
Design Capacity: 655 million Btu per hour

Emission Source/Control: 00SCR - Control
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Item 94.9:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-GTDBS

Process: GB2

Source Classification Code: 2-02-001-01

Process Description:

Gas turbine and supplemental duct burners both firing # 2 fuel oil. SCR used for NO_x control. Total # 2 fuel oil consumption in the gas turbine shall not exceed 8.14 x 10⁶ gallons per year and total # 2 fuel oil consumption in the duct burners shall not exceed 1.24 x 10⁶ gallons per year, both calculated on a daily rolling basis. Duct burners firing fuel oil is proposed as an alternate operating scenario (AOS).

Emission Source/Control: 000DB - Combustion
Design Capacity: 167 million Btu per hour

Emission Source/Control: 000GT - Combustion
Design Capacity: 655 million Btu per hour

Emission Source/Control: 00SCR - Control
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Item 94.10:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-GTDBS

Process: GB3

Source Classification Code: 2-02-001-01

Process Description:

Gas turbine firing # 2 fuel oil and supplemental duct burners firing natural gas. SCR used for NO_x control. Total # 2 fuel oil firing in the gas turbine shall not exceed 8.14 x 10⁶ gallons per year, calculated on a daily rolling basis.

Emission Source/Control: 000DB - Combustion
Design Capacity: 167 million Btu per hour

Emission Source/Control: 000GT - Combustion
Design Capacity: 655 million Btu per hour

Emission Source/Control: 00SCR - Control
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Item 94.11:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-GTDBS

Process: GW1

Source Classification Code: 2-02-002-01

Process Description:

Gas turbine firing natural gas while performing on-line water washing. No supplemental duct burners operating. SCR used for NOx control. On-line gas turbine water washing shall not exceed 500 hours per 12 month period.

Emission Source/Control: 000GT - Combustion

Design Capacity: 655 million Btu per hour

Emission Source/Control: 00SCR - Control

Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Item 94.12:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-GTDBS

Process: GW2

Source Classification Code: 2-02-001-01

Process Description:

Gas turbine firing # 2 fuel oil while performing on-line water washing. Total # 2 fuel oil firing in the gas turbine shall not exceed 8.14×10^6 gallons per year calculated on a daily rolling basis on-line gas turbine water washing shall not exceed 500 hours per 12 month period.

Emission Source/Control: 000GT - Combustion

Design Capacity: 655 million Btu per hour

Emission Source/Control: 00SCR - Control

Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Item 94.13:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-HWBLR

Process: HB1

Source Classification Code: 1-02-006-03

Process Description:

Natural gas or propane fired 2.1 MMBTU per hour hot water boiler used for freeze protection and oil preheating.

Emission Source/Control: HWBLR - Combustion

Design Capacity: 2.1 million Btu per hour

Item 94.14:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: T-00110

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Process: VT1 Source Classification Code: 2-01-001-08
Process Description: Main #2 fuel oil tank vent.

Emission Source/Control: T0110 - Process
Design Capacity: 350 1000 gallons

Condition 95: Process Permissible Emissions **Effective between the dates of 04/19/2011 and 04/18/2016**

Applicable Federal Requirement:6 NYCRR 201-7.1

Item 95.1:

The sum of emissions from the regulated process cited shall not exceed the following Potential to Emit (PTE) rates for each regulated contaminant:

Emission Unit: 1-GTDBS Process: G01

CAS No: 0NY210-00-0
Name: OXIDES OF NITROGEN
PTE(s): 9 parts per million by volume (dry, corrected to 15% O2)
26 pounds per hour

Emission Unit: 1-GTDBS Process: G02

CAS No: 0NY210-00-0
Name: OXIDES OF NITROGEN
PTE(s): 30 parts per million by volume (dry, corrected to 15% O2)
83 pounds per hour

Emission Unit: 1-GTDBS Process: GB1

CAS No: 0NY210-00-0
Name: OXIDES OF NITROGEN
PTE(s): 9 parts per million by volume (dry, corrected to 15% O2)
26 pounds per hour

Emission Unit: 1-GTDBS Process: GB2

CAS No: 0NY210-00-0
Name: OXIDES OF NITROGEN
PTE(s): 30 parts per million by volume (dry, corrected to 15% O2)
83 pounds per hour

Emission Unit: 1-GTDBS Process: GB3

CAS No: 0NY210-00-0
Name: OXIDES OF NITROGEN
PTE(s): 30 parts per million by volume (dry, corrected to 15% O2)
83 pounds per hour

Condition 96: Compliance Certification

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 201-6.5

Item 96.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

CAS No: 000630-08-0 CARBON MONOXIDE

Item 96.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

On line gas turbine water washing (processes GW1, GW2, BW1, BW2 and BW3) shall cumulatively not exceed 500 hours per 12 month period. Records must be maintained which clearly show the time that water washing took place.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: WATER

Parameter Monitored: WATER

Upper Permit Limit: 500 hours per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 97: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 201-6.5

Item 97.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Item 97.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility shall maintain a file of all measurements including; CEM system performance evaluations, all CEM

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



systems or monitoring device calibration checks, adjustments & maintenance performed on these systems or devices, and all other info required by 40 CFR 60 recorded in a permanent form suitable for inspection. The file shall be retained for at least five years following the date of such measurement, maintenance, reports and records.

Monitoring Frequency: DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 98: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 201-6.5

Item 98.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 98.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Continuous mass emission rate of NO_x from 1GTDBS, must be monitored.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 99: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 201-6.5

Item 99.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Regulated Contaminant(s):

CAS No: 000630-08-0	CARBON MONOXIDE
CAS No: 007446-09-5	SULFUR DIOXIDE
CAS No: 007664-41-7	AMMONIA
CAS No: 0NY075-00-0	PARTICULATES
CAS No: 0NY075-00-5	PM-10
CAS No: 0NY998-00-0	VOC
CAS No: 0NY210-00-0	OXIDES OF NITROGEN

Item 99.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The total 1GTDBS heat input shall not exceed 780 MMBTU/hr
(based on HHV).

Manufacturer Name/Model Number: Rosemount / Micromotion

Parameter Monitored: HEAT INPUT

Upper Permit Limit: 780 million BTUs per hour

Reference Test Method: 40 CFR75 Appendix D

Monitoring Frequency: MONTHLY

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 100: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 201-6.5

Item 100.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Regulated Contaminant(s):

CAS No: 000630-08-0	CARBON MONOXIDE
---------------------	-----------------

Item 100.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Startup/ fuel transfer CO limit only (other CO limits in this permit, do not apply during startup/fuel transfer conditions). Average CO emissions for the 180 minute period following gas turbine ignition or fuel transfer will not exceed 100 ppmvd @ 15% O₂. Average emissions for the 180-minute period will be determined using all valid

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



CEM data.

Manufacturer Name/Model Number: SIEMENS/ULTRAMAT 5E

Upper Permit Limit: 100 parts per million by volume
(dry, corrected to 15% O₂)

Reference Test Method: 40 CFR 60, APPENDIX B&F

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 101: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 201-6.5

Item 101.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 101.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Shutdown CO limit only (other CO limits in this permit, do not apply during shutdown CO conditions). Average CO emissions for the 180 minute period preceding the gas turbine shutdown will not exceed 100 ppmvd @ 15% O₂.

Average emissions for the 180 minute period will be determined using all valid CEM data.

Manufacturer Name/Model Number: SIEMENS / ULTRAMAT 5E

Upper Permit Limit: 100 parts per million by volume
(dry, corrected to 15% O₂)

Reference Test Method: 40 CFR 60, APPENDIX B&F

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 3-hour average

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 102: Compliance Certification

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR Subpart 202-1

Item 102.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Item 102.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

A continuous monitoring and recording system shall be calibrated, maintained and operated to measure NO_x, CO and O₂ in the gas turbine/duct burner exhaust stack. The CEM shall meet the requirements of 40 CFR 60, Appendices B&F.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 103: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR Subpart 202-1

Item 103.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Item 103.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility shall utilize its CEMs to calculate heat input and mass emission rates using continuously monitored fuel flow rates, and the methods specified in 40 CFR 75, Subpart H and Appendices D&F.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Condition 104: Compliance Certification
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR Subpart 202-1

Item 104.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Item 104.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The gas turbine shall only fire natural gas or # 2 fuel oil when firing at steady loads of 75% or greater. While the gas turbine is firing at loads from 40% up to but less than 75% except during startup, shutdown, or fuel transfer periods, the gas turbine shall only fire natural gas.

Monitoring Frequency: DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 105: Compliance Certification
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR Subpart 202-1

Item 105.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Regulated Contaminant(s):

CAS No: 007664-41-7 AMMONIA

Item 105.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Continuous emission monitor must be used to monitor NH3 emissions from 1-GTDBS.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Reports due 30 days after the reporting period.
The initial report is due 7/30/2011.
Subsequent reports are due every 6 calendar month(s).

Condition 106: Compliance Certification
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 227-2.6

Item 106.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 106.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Quarterly report contents as required by NSPS, 6 NYCRR 243 and 244, and 40 CFR Part 75, and as specified at 6 NYCRR 227-2.6 for affected units.

The 40 CFR Part 75 NO_x CEMs will be used to determine compliance with the NO_x RACT limit, as specified in 6 NYCRR 227-2.6(b)(4).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 3 calendar month(s).

Condition 107: Recordkeeping requirements.
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 40CFR 60.7(b), NSPS Subpart A

Item 107.1:

This Condition applies to Emission Unit: 1-GTDBS

Item 107.2:

Affected owners or operators shall maintain records of occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

Condition 108: Excess Emissions Report

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:40CFR 60.7(d), NSPS Subpart A

Item 108.1:

This Condition applies to Emission Unit: 1-GTDBS

Item 108.2:

A summary report form, for each pollutant monitored, shall be sent to the Administrator in the form prescribed in Figure 1 of 40 CFR Part 60.7(d).

Condition 109: Facility files for subject sources.

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:40CFR 60.7(f), NSPS Subpart A

Item 109.1:

This Condition applies to Emission Unit: 1-GTDBS

Item 109.2:

The following files shall be maintained at the facility for all affected sources: all measurements, including continuous monitoring systems, monitoring device, and performance testing measurements; all continuous monitoring system evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part, recorded in permanent form suitable for inspection. The file shall be maintained for at least two years following the date of such measurements, reports, and records.

Condition 110: Performance testing timeline.

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:40CFR 60.8(a), NSPS Subpart A

Item 110.1:

This Condition applies to Emission Unit: 1-GTDBS

Item 110.2:

Within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup of the facility, the owner or operator of the facility shall conduct performance testing and provide the results of such tests, in a written report, to the Administrator.

Condition 111: Required performance test information.

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:40CFR 60.8(c), NSPS Subpart A

Item 111.1:

This Condition applies to Emission Unit: 1-GTDBS

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Item 111.2:

Performance tests shall be conducted under such conditions specified by the Administrator, based upon representative performance data supplied by the owner or operate of the facility.

Condition 112: Prior notice.

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:40CFR 60.8(d), NSPS Subpart A

Item 112.1:

This Condition applies to Emission Unit: 1-GTDBS

Item 112.2:

The owner or operator shall provide the Administrator with prior notice of any performance test at least 30 days in advance of testing.

Condition 113: Performance testing facilities.

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:40CFR 60.8(e), NSPS Subpart A

Item 113.1:

This Condition applies to Emission Unit: 1-GTDBS

Item 113.2:

The following performance testing facilities shall be provided during all tests:

- 1) sampling ports adequate for tests methods applicable to such facility;
- 2) a safe sampling platform;
- 3) a safe access to the sampling platform; and
- 4) utilities for sampling and testing equipment.

Condition 114: Number of required tests.

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:40CFR 60.8(f), NSPS Subpart A

Item 114.1:

This Condition applies to Emission Unit: 1-GTDBS

Item 114.2:

Each performance test shall consist of three separate runs, at the specified duration required in the applicable test method. Compliance with all applicable standards shall be determined by using the arithmetic means of the results of the three runs.

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Condition 115: Opacity standard compliance testing.

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 40CFR 60.11, NSPS Subpart A

Item 115.1:

This Condition applies to Emission Unit: 1-GTDBS

Item 115.2:

The following conditions shall be used to determine compliance with the opacity standards:

1) observations shall be conducted in accordance with Reference Method 9, in Appendix A or this Part 40 CFR 60 (or an equivalent method approved by the Administrator including continuous opacity monitors);

2) the opacity standards apply at all times except during periods of start up, shutdown, and malfunction; and

3) all other applicable conditions cited in section 60.11 of this part.

Condition 116: Compliance with Standards and Maintenance Requirements

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 40CFR 60.11(d), NSPS Subpart A

Item 116.1:

This Condition applies to Emission Unit: 1-GTDBS

Item 116.2:

At all times, including periods of startup, shutdown, and malfunction, owners and operators of this facility shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Department and the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source

Condition 117: Circumvention.

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 40CFR 60.12, NSPS Subpart A

Item 117.1:

This Condition applies to Emission Unit: 1-GTDBS

Item 117.2:

No owner or operator subject to the provisions of this part shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.

Condition 118: Compliance Certification
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 40CFR 60.13, NSPS Subpart A

Item 118.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Regulated Contaminant(s):

CAS No: 000630-08-0	CARBON MONOXIDE
CAS No: 0NY210-00-0	OXIDES OF NITROGEN

Item 118.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In lieu of the requirements of 40 CFR 60 Appendix F, the facility will perform RATA testing of the NO_x and CO CEMS, at the frequency specified in section 40 CFR 75, Appendix B as approved in the NYSDEC letter dated 9/28/2005. The accuracy criteria of 40 CFR 60 Appendix F will continue to apply to the CO CEMS RATA.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 119: Compliance Certification
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 40CFR 60.13(d), NSPS Subpart A

Item 119.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Regulated Contaminant(s):

CAS No: 007664-41-7	AMMONIA
CAS No: 0NY210-00-0	OXIDES OF NITROGEN

Item 119.2:

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Daily calibration of the CEMS NO_x, NH₃ and oxygen analyzers is not required when the unit 1GTDBS does not operate. The calibration frequency requirements of 40 CFR 75, Appendix B will be used for these analyzers in lieu of the 40 CFR 60, Appendix F requirements as approved in the NYSDEC letter dated 8/2/2007

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 120: Modifications.

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:40CFR 60.14, NSPS Subpart A

Item 120.1:

This Condition applies to Emission Unit: 1-GTDBS

Item 120.2:

Within 180 days of the completion of any physical or operational change (as defined in section 60.14), compliance with the applicable standards must be achieved.

Condition 121: Reconstruction.

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:40CFR 60.15, NSPS Subpart A

Item 121.1:

This Condition applies to Emission Unit: 1-GTDBS

Item 121.2:

The following shall be submitted to the Administrator prior to reconstruction (as defined in section 60.15):

- 1) a notice of intent to reconstruct 60 days prior to the action;
- 2) name and address of the owner or operator;
- 3) the location of the existing facility;
- 4) a brief description of the existing facility and the components to be replaced;

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



- 5) a description of the existing air pollution control equipment and the proposed air pollution control equipment;
- 6) an estimate of the fixed capital cost of the replacements and of constructing a comparable entirely new facility;
- 7) the estimated life of the facility after the replacements; and
- 8) a discussion of any economic or technical limitations the facility may have in complying with the applicable standards of performance after the proposed replacements.

Condition 122: Standard for oxides of nitrogen.

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 40CFR 60.44b(a)(4), NSPS Subpart Db

Item 122.1:

This Condition applies to Emission Unit: 1-GTDBS

Item 122.2:

Oxides of nitrogen emissions while firing
natural gas and/or distillate oil in a duct
burner (used in a combined cycle system)
shall not exceed 0.20 lb/mmBtu.

Condition 123: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 40CFR 60.45b(j), NSPS Subpart Db

Item 123.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Item 123.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an affected facility that combusts very low sulfur oil is not subject to the compliance and performance testing requirements of this section if the owner or operator obtains fuel receipts as described in §60.49b(r).

Monitoring Frequency: PER DELIVERY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Subsequent reports are due every 6 calendar month(s).

Condition 124: Exemption from NOx standard.

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:40CFR 60.332(f), NSPS Subpart GG

Item 124.1:

This Condition applies to Emission Unit: 1-GTDBS

Item 124.2:

Gas turbines using water or steam injection to control NOx are exempt from section 332.a when ice fog is deemed a traffic hazard.

Condition 125: CEMS

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:40CFR 60.334(b), NSPS Subpart GG

Item 125.1:

This Condition applies to Emission Unit: 1-GTDBS

Item 125.2:

The owner or operator of any stationary gas turbine that commenced construction, reconstruction or modification after October 3, 1977, but before July 8, 2004, and which uses water or steam injection to control NOX emissions may, as an alternative to operating the continuous monitoring system described in paragraph (a) of this section, install, certify, maintain, operate, and quality-assure a continuous emission monitoring system (CEMS) consisting of NOX and O2 monitors. As an alternative, a CO2 monitor may be used to adjust the measured NOX concentrations to 15 percent O2 by either converting the CO2 hourly averages to equivalent O2 concentrations using Equation F-14a or F-14b in appendix F to 40 CFR Part 75 and making the adjustments to 15 percent O2, or by using the CO2 readings directly to make the adjustments, as described in Method 20. If the option to use a CEMS is chosen, the CEMS shall be installed, certified, maintained and operated as specified in 40 CFR 60.334(b)(1), (2) and (3).

Condition 126: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:40CFR 60.334(h)(3), NSPS Subpart GG

Item 126.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Item 126.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Notwithstanding the provisions of paragraph (h)(1) of 40 CFR 60.334(h), the owner or operator may elect not to monitor the total sulfur content of the gaseous fuel combusted in the turbine, if the gaseous fuel is demonstrated to meet the definition of natural gas in §60.331(u), regardless of whether an existing custom schedule approved by the administrator for subpart GG requires such monitoring. The owner or operator shall use one of the following sources of information to make the required demonstration:

(i) The gas quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the gaseous fuel, specifying that the maximum total sulfur content of the fuel is 20.0 grains/100 scf or less; or

(ii) Representative fuel sampling data which show that the sulfur content of the gaseous fuel does not exceed 20 grains/100 scf. At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of appendix D to 40 CFR part 75 of this chapter is required.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 127: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 40CFR 60.334(j), NSPS Subpart GG

Item 127.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Item 127.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For each affected unit required to continuously monitor parameters or emissions, or to periodically determine the fuel sulfur content or fuel nitrogen content under this subpart, the owner or operator shall submit reports of excess emissions and monitor downtime, in accordance with §60.7(c). Excess emissions shall be reported for all periods of unit operation, including start-up, shutdown

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



and malfunction. For the purpose of reports required under §60.7(c), periods of excess emissions and monitor downtime that shall be reported are defined in 40 CFR 60 Subpart GG-334(j)(1) - (5).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 128: Facility Subject to Title IV Acid Rain Regulations and Permitting
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:40 CFR Part 72

Item 128.1:

This Condition applies to Emission Unit: 1-GTDBS

Item 128.2:

This facility is subject to the Title IV Acid Rain Regulations found in 40 CFR Parts 72, 73, 75, 76, 77 and 78. The Acid Rain Permit is an attachment to this permit.

Condition 129: Compliance Certification
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement:6 NYCRR 201-6.5

Item 129.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Process: G01

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 129.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Continuous emission monitoring is required. Emissions shall not exceed the limits herein while firing natural gas in the gas turbine, and no supplemental duct burner firing.

Manufacturer Name/Model Number: SIEMENS/ULTRAMAT 5E

Parameter Monitored: CARBON MONOXIDE

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Upper Permit Limit: 13.0 parts per million by volume
(dry, corrected to 15% O₂)

Reference Test Method: 40 CFR 60, APPENDIX B&F

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 130: Compliance Certification
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 201-6.5

Item 130.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Process: G02

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 130.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Continuous emission monitoring is required. Emissions shall not exceed the limits herein while firing #2 fuel oil in the gas turbine, with no supplemental firing of the duct burners.

OPERATIONAL FLEXIBILITY

ALTERNATE OPERATING SCENARIO (AOS)

AOS is allowed as a permitting scenario by 6 NYCRR Part 201-6.5(f). Rensselaer Cogen proposes that this condition be designated as an AOS. The Department accepts this proposal. This AOS condition is specific to the use of fuel oil as a combustion fuel by the targeted facility, or emission unit(s) or emission point(s) or process (es) or emission sources(s) specified herein. All monitoring, testing and reporting required by this AOS condition, will be deferred until fuel oil is used as a combustion fuel.

If fuel oil is used as a combustion fuel in this permit term, then all required reporting for this AOS condition, will be submitted at the earlier date, of either the next regularly scheduled report date or before the end of the permit term. AOS status shall be included in the Semi Annual and the Annual Compliance Reports.

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Manufacturer Name/Model Number: SIEMENS/ULTRAMAT 5E

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 24.0 parts per million by volume

(dry, corrected to 15% O₂)

Reference Test Method: 40 CFR 60, APPENDIX B&F

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 131: Compliance Certification

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 201-6.5

Item 131.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Process: GB1

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 131.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Continuous emission monitoring is required. Emissions shall not exceed the limits herein while firing natural gas in the gas turbine and the supplemental duct burners firing natural gas.

Manufacturer Name/Model Number: SIEMENS/ULTRAMAT 5E

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 20.0 parts per million by volume

(dry, corrected to 15% O₂)

Reference Test Method: 40 CFR 60, APPENDIX B&F

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 132: Capping Monitoring Condition

Effective between the dates of 04/19/2011 and 04/18/2016

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 132.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

40 CFR 52.21

Item 132.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 132.3:

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.

Item 132.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 132.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 132.6:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Emission Point: 00001

Regulated Contaminant(s):

CAS No: 0NY210-00-0

OXIDES OF NITROGEN

Item 132.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Startup/ fuel transfer limit only (other NOx limits in this permit, do not apply during startup/ fuel transfer conditions). Average NOx emissions for the 180 minute period following gas turbine ignition or fuel transfer

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



will not exceed 95 ppmvd @ 15% O₂. Average emissions for the 180 minute period will be determined using all valid CEM data.

Manufacturer Name/Model Number: ROSEMOUNT/951C

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 95 parts per million by volume (dry, corrected to 15% O₂)

Reference Test Method: 40 CFR 60, APPENDIX B&F

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 3-hour average

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

Condition 133: Capping Monitoring Condition

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 133.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

40 CFR 52.21

Item 133.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 133.3:

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.

Item 133.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 133.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



the Act.

Item 133.6:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Emission Point: 00001

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 133.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Shutdown NO_x limit only (other NO_x limits in this permit, do not apply during shutdown conditions). Average NO_x emissions for the 180 minute period preceding the gas turbine shutdown will not exceed 95 ppmvd @ 15% O₂. Average emissions for the 180 minute period will be determined using all valid CEM data.

Manufacturer Name/Model Number: SIEMENS / ULTRAMAT 5E

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 95 parts per million by volume (dry, corrected to 15% O₂)

Reference Test Method: 40 CFR 60, APPENDIX B&F

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 3-hour average

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).



STATE ONLY ENFORCEABLE CONDITIONS

****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability

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.

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state applicable requirements and are not subject to compliance certification requirements unless otherwise noted or required under 6 NYCRR Part 201.

Condition 134: Contaminant List

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable State Requirement:ECL 19-0301

Item 134.1:

Emissions of the following contaminants are subject to contaminant specific requirements in this permit(emission limits, control requirements or compliance monitoring conditions).

CAS No: 000124-38-9

Name: CARBON DIOXIDE

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



CAS No: 000630-08-0
Name: CARBON MONOXIDE

CAS No: 007446-09-5
Name: SULFUR DIOXIDE

CAS No: 007664-41-7
Name: AMMONIA

CAS No: 0NY075-00-0
Name: PARTICULATES

CAS No: 0NY075-00-5
Name: PM-10

CAS No: 0NY210-00-0
Name: OXIDES OF NITROGEN

CAS No: 0NY998-00-0
Name: VOC

Condition 135: Unavoidable noncompliance and violations
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable State Requirement: 6 NYCRR 201-1.4

Item 135.1:

At the discretion of the commissioner a violation of any applicable emission standard for necessary scheduled equipment maintenance, start-up/shutdown conditions and malfunctions or upsets may be excused if such violations are unavoidable. The following actions and recordkeeping and reporting requirements must be adhered to in such circumstances.

(a) The facility owner and/or operator shall compile and maintain records of all equipment maintenance or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the commissioner's representative when requested to do so in writing or when so required by a condition of a permit issued for the corresponding air contamination source except where conditions elsewhere in this permit which contain more stringent reporting and notification provisions for an applicable requirement, in which case they supercede those stated here. Such reports shall describe why the violation was unavoidable and shall 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. If a facility owner and/or operator is subject to continuous stack monitoring and quarterly reporting requirements, he need not submit reports for equipment maintenance or start-up/shutdown for the facility to the commissioner's representative.

(b) In the event that emissions of air contaminants in excess of any emission standard in 6 NYCRR Chapter III Subchapter A occur due to a malfunction, the facility owner and/or operator shall report such malfunction by telephone to the commissioner's representative as soon as possible during normal working hours, but in any event not later than two working days after becoming aware that the malfunction occurred. Within 30 days thereafter, when requested in writing by the commissioner's representative, the facility owner and/or operator shall submit a

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



written report to the commissioner's representative describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates. These reporting requirements are superceded by conditions elsewhere in this permit which contain reporting and notification provisions for applicable requirements more stringent than those above.

(c) The Department may also require the owner and/or operator to include in reports described under (a) and (b) above an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions depending on the deviation of the malfunction and the air contaminants emitted.

(d) In the event of maintenance, start-up/shutdown or malfunction conditions which result in emissions exceeding any applicable emission standard, the facility owner and/or operator shall take appropriate action to prevent emissions which will result in contravention of any applicable ambient air quality standard. Reasonably available control technology, as determined by the commissioner, shall be applied during any maintenance, start-up/shutdown or malfunction condition subject to this paragraph.

(e) In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets.

Condition 136: Visible Emissions Limited **Effective between the dates of 04/19/2011 and 04/18/2016**

Applicable State Requirement:6 NYCRR 211.2

Item 136.1:

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.

Condition 137: Compliance Demonstration **Effective between the dates of 04/19/2011 and 04/18/2016**

Applicable State Requirement:6 NYCRR 242-1.5

Item 137.1:

The Compliance Demonstration activity will be performed for the facility:
The Compliance Demonstration applies to:

Emission Unit: 1-GTDBS

Item 137.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owners and operators of the CO2 budget source and each CO2 budget unit at the source shall keep on site at

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



the source each of the following documents for a period of 10 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 10 years, in writing by the department.

(i) The account certificate of representation for the CO₂ authorized account representative for the source and each CO₂ budget unit at the source and all documents that demonstrate the truth of the statements in the account certificate of representation, in accordance with 6 NYCRR Part 242-2.4, provided that the certificate and documents shall be retained on site at the source beyond such 10-year period until such documents are superseded because of the submission of a new account certificate of representation.

(ii) All emissions monitoring information, in accordance with Subpart 242-8 and 40 CFR 75.57.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CO₂ Budget Trading Program.

(iv) Copies of all documents used to complete a CO₂ budget permit application and any other submission under the CO₂ Budget Trading Program or to demonstrate compliance with the requirements of the CO₂ Budget Trading Program.

The CO₂ authorized account representative of a CO₂ budget source and each CO₂ budget unit at the source shall submit the reports and compliance certifications required under the CO₂ Budget Trading Program, including those under Subpart 242-4.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 6 calendar month(s).

****** Emission Unit Level ******

Condition 138: Compliance Demonstration

Effective between the dates of 04/19/2011 and 04/18/2016

Applicable State Requirement: 6 NYCRR Subpart 242-4

Item 138.1:

The Compliance Demonstration activity will be performed for:

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Emission Unit: 1-GTDBS

Regulated Contaminant(s):

CAS No: 000124-38-9 CARBON DIOXIDE

Item 138.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Annual Compliance Certification Report:

(a) For each control period in which a CO₂ budget source is subject to the CO₂ requirements of subdivision 242-1.5(c) of this Part, CO₂ authorized account representative of the source shall submit to the department by March 1st following the relevant control period, a compliance certification report. The control period is a three-calendar-year time period.

(b) The compliance certification report shall include the following elements:

(1) identification of the source and each CO₂ budget unit at the source;

(2) as an option, the serial numbers of the CO₂ allowances that are to be deducted from the source's compliance account under section 242-6.5 of this Part for the control period, including the serial numbers of any CO₂ offset allowances that are to be deducted subject to the limitations of section 242-6.5(a)(3) of this Part; and

(3) the compliance certification under subdivision (c) of this section (below).

(c) In the compliance certification report the CO₂ authorized account representative shall certify, based on reasonable inquiry of those persons with primary responsibility for operating the source and the CO₂ budget units at the source in compliance with the CO₂ Budget Trading Program, whether the source and each CO₂ budget unit at the source for which the compliance certification is submitted was operated during the calendar years covered by the report in compliance with the requirements of the CO₂ Budget Trading Program, including:

(1) whether the source was operated in compliance with the CO₂ requirements of section 242-1.5(c) of this Part;

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



(2) whether the monitoring plan applicable to each unit at the source has been maintained to reflect the actual operation and monitoring of the unit, and contains all information necessary to attribute CO₂ emissions to the unit, in accordance with Subpart 242-8 of this Part;

(3) whether all the CO₂ emissions from the units at the source were monitored or accounted for through the missing data procedures and reported in the quarterly monitoring reports, including whether conditional data were reported in the quarterly reports in accordance with Subpart 242-8 of this Part. If conditional data were reported, the owner or operator shall indicate whether the status of all conditional data has been resolved and all necessary quarterly report resubmissions have been made;

(4) whether the facts that form the basis for certification under Subpart 242-8 of each monitor at each unit at the source, or for using an excepted monitoring method or alternative monitoring method approved under Subpart 242-8 of this Part, if any, have changed; and

(5) if a change is required to be reported under paragraph (c)(4) above, specify the nature of the change, the reason for the change, when the change occurred, and how the unit's compliance status was determined subsequent to the change, including what method was used to determine emissions when a change mandated the need for monitor recertification.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 139: Compliance Demonstration
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable State Requirement: 6 NYCRR Subpart 242-8

Item 139.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-GTDBS

Regulated Contaminant(s):

CAS No: 000124-38-9 CARBON DIOXIDE

Item 139.2:

Compliance Demonstration shall include the following monitoring:



Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Recordkeeping and Reporting

(a) General provisions. The CO₂ authorized account representative shall comply with all recordkeeping and reporting requirements in this section, the applicable record keeping and reporting requirements under 40 CFR 75.73 and with the requirements of section 242-2.1(e) of this Part.

(b) Monitoring plans. The owner or operator of a CO₂ budget unit shall submit a monitoring plan in the manner prescribed in 40 CFR 75.62.

(c) Certification applications. The CO₂ authorized account representative shall submit an application to the department within 45 days after completing all CO₂ monitoring system initial certification or recertification tests required under section 242-8.2 of this Subpart including the information required under 40 CFR 75.63 and 40 CFR 75.53(e) and (f).

(d) Quarterly reports. The CO₂ authorized account representative shall submit quarterly reports, as follows:

(1) The CO₂ authorized account representative shall report the CO₂ mass emissions data and heat input data for the CO₂ budget unit, in an electronic format prescribed by the administrator unless otherwise prescribed by the department for each calendar quarter.

(2) The CO₂ authorized account representative shall submit each quarterly report to the department or its agent within 30 days following the end of the calendar quarter covered by the report. Quarterly reports shall be submitted in the manner specified in subpart H of 40 CFR part 75 and 40 CFR 75.64. Quarterly reports shall be submitted for each CO₂ budget unit (or group of units using a common stack), and shall include all of the data and information required in subpart G of 40 CFR part 75, except for opacity, NO_x, and SO₂ provisions.

(3) The CO₂ authorized account representative shall submit to the department or its agent a compliance certification in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The certification shall state that:

(i) the monitoring data submitted were recorded in accordance with the applicable requirements of this Subpart and 40 CFR part 75, including the quality assurance procedures and specifications;

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



- (ii) for a unit with add-on CO₂ emissions controls and for all hours where data are substituted in accordance with 40 CFR 75.34(a)(1), the add-on emissions controls were operating within the range of parameters listed in the quality assurance/quality control program under appendix B of 40 CFR part 75 and the substitute values do not systematically underestimate CO₂ emissions; and
- (iii) the CO₂ concentration values substituted for missing data under Subpart D of 40 CFR part 75 do not systematically underestimate CO₂ emissions

Monitoring Frequency: CONTINUOUS

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 3 calendar month(s).

Condition 140: Compliance Demonstration
Effective between the dates of 04/19/2011 and 04/18/2016

Applicable State Requirement: 6 NYCRR 242-8.5

Item 140.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-GTDBS

Regulated Contaminant(s):

CAS No: 000124-38-9 CARBON DIOXIDE

Item 140.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Recordkeeping and Reporting

(a) General provisions. The CO₂ authorized account representative shall comply with all recordkeeping and reporting requirements in this section, the applicable record keeping and reporting requirements under 40 CFR 75.73 and with the requirements of section 242-2.1(e) of this Part.

(b) Monitoring plans. The owner or operator of a CO₂ budget unit shall submit a monitoring plan in the manner prescribed in 40 CFR 75.62.

(c) Certification applications. The CO₂ authorized account representative shall submit an application to the department within 45 days after completing all CO₂ monitoring system initial certification or recertification tests required under section 242-8.2 of this Subpart

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



including the information required under 40 CFR 75.63 and 40 CFR 75.53(e) and (f).

(d) Quarterly reports. The CO₂ authorized account representative shall submit quarterly reports, as follows:

(1) The CO₂ authorized account representative shall report the CO₂ mass emissions data and heat input data for the CO₂ budget unit, in an electronic format prescribed by the administrator unless otherwise prescribed by the department for each calendar quarter.

(2) The CO₂ authorized account representative shall submit each quarterly report to the department or its agent within 30 days following the end of the calendar quarter covered by the report. Quarterly reports shall be submitted in the manner specified in subpart H of 40 CFR part 75 and 40 CFR 75.64. Quarterly reports shall be submitted for each CO₂ budget unit (or group of units using a common stack), and shall include all of the data and information required in subpart G of 40 CFR part 75, except for opacity, NO_x, and SO₂ provisions.

(3) The CO₂ authorized account representative shall submit to the department or its agent a compliance certification in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The certification shall state that:

(i) the monitoring data submitted were recorded in accordance with the applicable requirements of this Subpart and 40 CFR part 75, including the quality assurance procedures and specifications;

(ii) for a unit with add-on CO₂ emissions controls and for all hours where data are substituted in accordance with 40 CFR 75.34(a)(1), the add-on emissions controls were operating within the range of parameters listed in the quality assurance/quality control program under appendix B of 40 CFR part 75 and the substitute values do not systematically underestimate CO₂ emissions; and

(iii) the CO₂ concentration values substituted for missing data under Subpart D of 40 CFR part 75 do not systematically underestimate CO₂ emissions

Monitoring Frequency: CONTINUOUS

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2011.

Subsequent reports are due every 3 calendar month(s).

