



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 4-3814-00029/00024
Effective Date: 05/22/2017 Expiration Date: 05/21/2022

Permit Type: Title IV (Phase II Acid Rain)
Permit ID: 4-3814-00029/00025
Effective Date: 05/22/2017 Expiration Date: 05/21/2022

Permit Issued To: Rensselaer Generating LLC
811 Main St Ste 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:

The current Air Title V Facility Permit includes conditions from the NYSDEC Certificate to Construct and Operate for the facility, which limit the fuel oil sulfur content, heat input rate and emission rates of NO_x and CO such that the facility's potential emissions of SO₂, NO_x and CO were determined to be less than the Prevention of Significant Deterioration (PSD) of air quality applicability threshold [42 CFR 52.21(j)] when the facility was constructed in 1992-93. This application also includes several updates to applicable regulatory requirements and proposed minor modifications and corrections to the existing Permit.

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 - REGION 4
 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

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 the expiration of permits for Title V and 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 prior to actual transfer of ownership.

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 exercise all available authority 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 5: Submission of application for permit modification or renewal-REGION 4 HEADQUARTERS
Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 5.1:

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: Rensselaer Generating LLC
811 Main St Ste 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: 05/22/2017

Permit Expiration Date: 05/21/2022



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 1 6 NYCRR 200.6: Acceptable Ambient Air Quality
- 2 6 NYCRR 201-6.4 (a) (7): Fees
- 3 6 NYCRR 201-6.4 (c): Recordkeeping and Reporting of Compliance Monitoring
- 4 6 NYCRR 201-6.4 (c) (2): Records of Monitoring, Sampling, and Measurement
- 5 6 NYCRR 201-6.4 (c) (3) (ii): Compliance Certification
- 6 6 NYCRR 201-6.4 (e): Compliance Certification
- 7 6 NYCRR 202-2.5: Recordkeeping requirements
- 8 6 NYCRR 215.2: Open Fires - Prohibitions
- 9 6 NYCRR 200.7: Maintenance of Equipment
- 10 6 NYCRR 201-1.7: Recycling and Salvage
- 11 6 NYCRR 201-1.8: Prohibition of Reintroduction of Collected Contaminants to the air
- 12 6 NYCRR 201-3.2 (a): Exempt Sources - Proof of Eligibility
- 13 6 NYCRR 201-3.3 (a): Trivial Sources - Proof of Eligibility
- 14 6 NYCRR 201-6.4 (a) (4): Requirement to Provide Information
- 15 6 NYCRR 201-6.4 (a) (8): Right to Inspect
- 16 6 NYCRR 201-6.4 (f) (6): Off Permit Changes
- 17 6 NYCRR 202-1.1: Required Emissions Tests
- 18 40 CFR Part 68: Accidental release provisions.
- 19 40CFR 82, Subpart F: Recycling and Emissions Reduction
- 20 6 NYCRR Subpart 201-6: Emission Unit Definition
- 21 6 NYCRR 201-6.4: Compliance Certification
- 22 6 NYCRR 201-6.4: Compliance Certification
- 23 6 NYCRR 201-6.4: Compliance Certification
- 24 6 NYCRR 201-6.4: Compliance Certification
- 25 6 NYCRR 201-6.4: Compliance Certification
- 26 6 NYCRR 201-6.4: Compliance Certification
- 27 6 NYCRR 201-6.4: Compliance Certification
- 28 6 NYCRR 201-6.4: Compliance Certification
- 29 6 NYCRR 201-6.4: Compliance Certification
- 30 6 NYCRR 201-6.4: Compliance Certification
- 31 6 NYCRR 201-6.4: Compliance Certification
- 32 6 NYCRR 201-6.4: Compliance Certification
- 33 6 NYCRR 201-6.4: Compliance Certification
- 34 6 NYCRR 201-6.4: Compliance Certification
- 35 6 NYCRR 201-6.4: Compliance Certification
- 36 6 NYCRR 201-6.4: Compliance Certification
- 37 6 NYCRR 201-6.4: Compliance Certification
- 38 6 NYCRR 201-6.4: Compliance Certification
- 39 6 NYCRR 201-6.4: Compliance Certification
- 40 6 NYCRR 201-6.4: Compliance Certification
- 41 6 NYCRR 201-6.4: Compliance Certification
- 42 6 NYCRR 201-6.4: Compliance Certification
- 43 6 NYCRR 201-6.4: Compliance Certification



- 44 6 NYCRR 201-6.4: Compliance Certification
- 45 6 NYCRR 201-6.4: Compliance Certification
- 46 6 NYCRR 201-6.4: Compliance Certification
- 47 6 NYCRR 201-6.4: Compliance Certification
- 48 6 NYCRR 201-6.4: Compliance Certification
- 49 6 NYCRR 201-6.4: Compliance Certification
- 50 6 NYCRR 201-6.4: Compliance Certification
- 51 6 NYCRR 201-6.4: Compliance Certification
- 52 6 NYCRR 201-6.4: Compliance Certification
- 53 6 NYCRR 201-6.4: Compliance Certification
- 54 6 NYCRR 201-6.4: Compliance Certification
- 55 6 NYCRR 201-6.4 (d) (4): Progress Reports Due Semiannually
- 56 6 NYCRR Subpart 201-7: Facility Permissible Emissions
- *57 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *58 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *59 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 60 6 NYCRR Subpart 202-1: Compliance Certification
- 61 6 NYCRR 202-1.3: Acceptable procedures
- 62 6 NYCRR 202-2.1: Compliance Certification
- 63 6 NYCRR 211.1: Air pollution prohibited
- 64 6 NYCRR 225-1.2 (g): Compliance Certification
- 65 6 NYCRR 225-1.2 (h): Compliance Certification
- 66 6 NYCRR 227-1.3 (a): Compliance Certification
- 67 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
- 68 40CFR 60.42b(j), NSPS Subpart Db: Compliance Certification
- 69 40CFR 60.48b(j), NSPS Subpart Db: Compliance Certification
- 70 40CFR 63, Subpart ZZZZ: Applicability
- 71 40CFR 63.6625(f), Subpart ZZZZ: Compliance Certification

Emission Unit Level

- 72 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 73 6 NYCRR Subpart 201-6: Process Definition By Emission Unit
- 74 6 NYCRR Subpart 201-7: Process Permissible Emissions

EU=1-GTDBS

- 75 6 NYCRR 201-6.4: Compliance Certification
- 76 6 NYCRR 201-6.4: Compliance Certification
- 77 6 NYCRR 201-6.4: Compliance Certification
- 78 6 NYCRR 201-6.4: Compliance Certification
- 79 6 NYCRR 201-6.4: Compliance Certification
- 80 6 NYCRR 201-6.4: Compliance Certification
- 81 6 NYCRR 201-6.4: Compliance Certification
- 82 6 NYCRR 201-6.4: Compliance Certification
- 83 6 NYCRR 201-6.4 (b): Compliance Certification
- 84 6 NYCRR 201-6.4 (b): Compliance Certification
- 85 6 NYCRR 201-6.4 (b): Compliance Certification
- 86 6 NYCRR 227-2.4: Compliance Certification
- 87 6 NYCRR 227-2.6: Compliance Certification
- 88 40CFR 60.7(b), NSPS Subpart A: Recordkeeping requirements.
- 89 40CFR 60.7(d), NSPS Subpart A: Excess Emissions Report
- 90 40CFR 60.8(a), NSPS Subpart A: Performance testing timeline.
- 91 40CFR 60.8(c), NSPS Subpart A: Required performance test information.
- 92 40CFR 60.8(d), NSPS Subpart A: Prior notice.



- 93 40CFR 60.8(e), NSPS Subpart A: Performance testing facilities.
- 94 40CFR 60.8(f), NSPS Subpart A: Number of required tests.
- 95 40CFR 60.11, NSPS Subpart A: Opacity standard compliance testing.
- 96 40CFR 60.11(d), NSPS Subpart A: Compliance with Standards and Maintenance Requirements
- 97 40CFR 60.12, NSPS Subpart A: Circumvention.
- 98 40CFR 60.13, NSPS Subpart A: Compliance Certification
- 99 40CFR 60.13(d), NSPS Subpart A: Compliance Certification
- 100 40CFR 60.14, NSPS Subpart A: Modifications.
- 101 40CFR 60.15, NSPS Subpart A: Reconstruction.
- 102 40CFR 60.44b(a)(4), NSPS Subpart Db: Standard for oxides of nitrogen.
- 103 40CFR 60.45b(j), NSPS Subpart Db: Compliance Certification
- 104 40CFR 60.332(f), NSPS Subpart GG: Exemption from NOx standard.
- 105 40CFR 60.334(b), NSPS Subpart GG: CEMS
- 106 40CFR 60.334(h)(3), NSPS Subpart GG: Compliance Certification
- 107 40CFR 60.334(j), NSPS Subpart GG: Compliance Certification
- 108 40 CFR Part 72: Facility Subject to Title IV Acid Rain Regulations and Permitting
- 109 40CFR 97.406, Subpart AAAAA: Compliance Certification
- 110 40CFR 97.506, Subpart BBBBB: Compliance Certification
- 111 40CFR 97.606, Subpart CCCCC: Compliance Certification

EU=1-GTDBS,Proc=G01

- 112 6 NYCRR 201-6.4: Compliance Certification

EU=1-GTDBS,Proc=G02

- 113 6 NYCRR 201-6.4: Compliance Certification

EU=1-GTDBS,Proc=GB1

- 114 6 NYCRR 201-6.4: Compliance Certification

EU=1-HWBLR

- 115 6 NYCRR 227-2.4 (d): Compliance Certification

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 116 ECL 19-0301: Contaminant List
- 117 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities
- 118 6 NYCRR 211.2: Visible Emissions Limited
- 119 6 NYCRR 242-1.5: Compliance Demonstration

Emission Unit Level

EU=1-GTDBS

- 120 6 NYCRR Subpart 242-4: Compliance Demonstration
- 121 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: Public Access to Recordkeeping for Title V Facilities - 6 NYCRR 201-1.10 (b)**
The Department will make available to the public any permit application, compliance plan, permit, and monitoring and compliance certification report pursuant to Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to 6 NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.
- Item B: Timely Application for the Renewal of Title V Permits - 6 NYCRR 201-6.2 (a) (4)**
Owners and/or operators of facilities having an issued Title V permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.
- Item C: Certification by a Responsible Official - 6 NYCRR 201-6.2 (d) (12)**
Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official. This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- Item D: Requirement to Comply With All Conditions - 6 NYCRR 201-6.4 (a) (2)**
The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
- Item E: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR 201-6.4 (a) (3)**
This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and



reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

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

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

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

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

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

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

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

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

i. The ability of the Department to seek to bring suit on behalf of the State of New York, or the Administrator to seek to bring suit on behalf of the United States, to immediately restrain any person causing or contributing to pollution presenting an imminent and substantial endangerment to public health, welfare or the environment to stop the emission of air pollutants causing or contributing to such pollution;

ii. The liability of a permittee of the Title V



facility for any violation of applicable requirements prior to or at the time of permit issuance;

iii. The applicable requirements of Title IV of the Act;

iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

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

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

i. When additional applicable requirements under the act become applicable to a title V facility with a remaining permit term of 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 the 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 section 201- 6.6 of this Subpart.

ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

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

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

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

Reopenings shall not be initiated before a notice of such intent is provided to the facility by the Department at least thirty days in advance of the date that the permit



is to be reopened, except that the Department may provide a shorter time period in the case of an emergency.

Item K: Permit Exclusion - ECL 19-0305

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

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

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

**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 05/22/2017 and 05/21/2022**

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

New York State Department of Environmental Conservation

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Facility DEC ID: 4381400029



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 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4 (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 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4 (c)

Item 3.1:

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 201-6.2 of Part 201.

Condition 4: Records of Monitoring, Sampling, and Measurement
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4 (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 05/22/2017 and 05/21/2022

Applicable Federal Requirement: 6 NYCRR 201-6.4 (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 written notice, certified by a responsible official consistent with 6 NYCRR Part 201-6.2(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 may be submitted electronically or physically. Electronic reports shall be submitted using the Department's Air Compliance and Emissions Electronic-Reporting system (ACE). If the facility owner or operator elects to send physical copies instead, two copies shall be sent 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) and one copy shall be sent to the Administrator (or his or her representative). Mailing addresses for the above referenced persons are contained in the monitoring condition for 6 NYCRR Part 201-6.4(e), contained elsewhere in this permit.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2017.

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

Condition 6: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement: 6 NYCRR 201-6.4 (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 annual compliance certifications may be submitted electronically or physically. Electronic reports shall be submitted using the Department's Air Compliance and Emissions Electronic-Reporting system (ACE). If the facility owner or operator elects to send physical copies instead, two copies shall be sent 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) and one copy shall be sent to the Administrator (or his or her representative). The mailing addresses for the above referenced persons are:

Chief – Stationary Source Compliance Section
USEPA Region 2
Air Compliance Branch
290 Broadway
New York, NY 10007-1866

The address for the RAPCE is as follows:

Regional Air Pollution Control Engineer
NYSDEC Region 4 Headquarters
1130 North Westcott Road
Schenectady, NY 12306-2014

The address for the BQA is as follows:

NYSDEC



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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 1/30/2018.
Subsequent reports are due on the same day each year

Condition 7: Recordkeeping requirements
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 202-2.5

Item 7.1:

(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 8: Open Fires - Prohibitions
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 215.2

Item 8.1:

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 8.2

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.



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- (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 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 9: Maintenance of Equipment
Effective between the dates of 05/22/2017 and 05/21/2022**

Applicable Federal Requirement:6 NYCRR 200.7

Item 9.1:

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 10: Recycling and Salvage
Effective between the dates of 05/22/2017 and 05/21/2022**



Applicable Federal Requirement:6 NYCRR 201-1.7

Item 10.1:

Where practical, the owner or operator of an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of the ECL.

Condition 11: Prohibition of Reintroduction of Collected Contaminants to the air

Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-1.8

Item 11.1:

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 12: Exempt Sources - Proof of Eligibility

Effective between the dates of 05/22/2017 and 05/21/2022

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

Item 12.1:

The owner or operator of an emission source or activity that is listed as being exempt may be required to certify that it is operated within the specific criteria described in this Subpart. The owner or operator of any such emission source or activity must maintain all records necessary for demonstrating compliance with this Subpart on-site for a period of five years, and make them available to representatives of the department upon request.

Condition 13: Trivial Sources - Proof of Eligibility

Effective between the dates of 05/22/2017 and 05/21/2022

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

Item 13.1:

The owner or operator of an emission source or activity that is listed as being trivial in this Section may be required to certify that it is operated within the specific criteria described in this Subpart. The owner or operator of any such emission source or activity must maintain all required records on-site for a period of five years and make them available to representatives of the department upon request.

Condition 14: Requirement to Provide Information

Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (4)

Item 14.1:

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

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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 15: Right to Inspect
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (8)

Item 15.1:

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 16: Off Permit Changes
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4 (f) (6)

Item 16.1:

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, 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.

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(ii) The permit shield described in section 6 NYCRR 201-6.4 shall not apply to any change made pursuant to this paragraph.

Condition 17: Required Emissions Tests
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 202-1.1

Item 17.1:

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 18: Accidental release provisions.
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:40 CFR Part 68

Item 18.1:

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
Carrollton, Md. 20785

Condition 19: Recycling and Emissions Reduction
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:40CFR 82, Subpart F

Item 19.1:

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 20: Emission Unit Definition
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 20.1:

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

Emission Unit: 1-EDGEN

Emission Unit Description:

Emission Unit 1-EDGEN is a 750 HP Cummins Onan emergency diesel generator engine. The emission unit is an exempt activity per 6 NYCRR 201-3.2(c)(6) and the definition in 6 NYCRR 200.1(cq) for an emergency power generating stationary internal combustion engine with operations limited to 500 hours per year. Emission Unit 1-EDGEN is subject to federal NESHAPS requirements for reciprocating internal combustion engines in 40 CFR 63, Subpart ZZZZ.

Building(s): B003

Item 20.2:

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

Emission Unit: 1-FPDSL

Emission Unit Description:

Emission Unit 1-FPDSL is a 182 HP Cummins emergency firewater pump engine. The emission unit is an exempt activity per 6 NYCRR 201-3.2(c)(6) and the definition in 6 NYCRR 200.1(cq) for an emergency power generating stationary internal combustion engine with operations limited to 500 hours per year. Emission Unit 1-FPDSL is subject to federal NESHAPS requirements for reciprocating internal combustion engines in 40 CFR 63, Subpart ZZZZ.

Building(s): B004

Item 20.3:

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 NOx control venting through one stack attached to the turbine/generator building.

Building(s): B001

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Item 20.4:

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

Emission Unit: 1-HWBLR

Emission Unit Description:

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

The emission unit is an exempt activity per 6 NYCRR 201-3.2(c)(1).

Building(s): B001

Item 20.5:

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. The main fuel oil tank is an exempt activity per 6 NYCRR 201-3.2(c)(21).

Building(s): B002

Condition 21: Compliance Certification

Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement: 6 NYCRR 201-6.4

Item 21.1:

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

Item 21.2:

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/Oxymat 6E

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 56.0 pounds per hour

Reference Test Method: 40 CFR 60 Appendix B&F

Monitoring Frequency: CONTINUOUS

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Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 22: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement: 6 NYCRR 201-6.4

Item 22.1:

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 22.2:

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.



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Manufacturer Name/Model Number: Siemens Ultramat/Oxymat 6E
Parameter Monitored: CARBON MONOXIDE
Upper Permit Limit: 88.0 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 7/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 23: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement: 6 NYCRR 201-6.4

Item 23.1:

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: GB2

Emission Unit: 1-GTDBS
Process: GB3

Item 23.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Under the alternative operating scenario provisions of 6 NYCRR Part 201-6.4(f), the facility shall be allowed to perform testing and maintenance on the turbine while firing oil without triggering the requirements for performance testing, reporting, and recordkeeping that are contained in the conditions of this permit for fuel oil firing.

Periodic testing, maintenance, or operator training on fuel oil shall not exceed a total of 48 hours during any calendar year. Records shall be kept on site noting the number of hours the turbine was run on fuel oil in order to demonstrate compliance with this condition.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION



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Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2017.

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

Condition 24: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4

Item 24.1:

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 24.2:

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/Oxymat 6E

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 7/30/2017.

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

Condition 25: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4

Item 25.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-GTDBS

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Process: G02

Emission Unit: 1-GTDBS

Process: GB2

Emission Unit: 1-GTDBS

Process: GB3

Regulated Contaminant(s):

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

Item 25.2:

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: 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 7/30/2017.

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

Condition 26: Compliance Certification

Effective between the dates of 05/22/2017 and 05/21/2022

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Applicable Federal Requirement:6 NYCRR 201-6.4

Item 26.1:

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 26.2:

Compliance Certification shall include the following monitoring:

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 7/30/2017.

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

Condition 27: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4

Item 27.1:

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: GB2

Emission Unit: 1-GTDBS
Process: GB3

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Regulated Contaminant(s):

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

Item 27.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Continuous emission rate of NOx 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 7/30/2017.

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

Condition 28: Compliance Certification

Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement: 6 NYCRR 201-6.4

Item 28.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-GTDBS

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Process: G02

Emission Unit: 1-GTDBS

Process: GB2

Emission Unit: 1-GTDBS

Process: GB3

Regulated Contaminant(s):

CAS No: 007664-41-7 AMMONIA

Item 28.2:

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 7/30/2017.

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

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Condition 29: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement: 6 NYCRR 201-6.4

Item 29.1:

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

Emission Unit: 1-GTDBS
Process: GB2

Emission Unit: 1-GTDBS
Process: GB3

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

Item 29.2:

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 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/Oxymat 6E

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

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DESCRIPTION

Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 30: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement: 6 NYCRR 201-6.4

Item 30.1:

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 30.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

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



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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/Oxymat 6E

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 7/30/2017.

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

Condition 31: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4

Item 31.1:

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 31.2:

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

Reference Test Method: See description

Monitoring Frequency: CONTINUOUS



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Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 32: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4

Item 32.1:

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: 0NY075-00-5 PM-10

Item 32.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Compliance with this PM-10 emission limit must be demonstrated once during the term of the permit.
Reference Method 5 (RM-5) may be used in lieu of RM 201 or 201A to determine the filterable portion of the PM-10 emissions by assuming that all filterable particulate emissions are PM-10.

Parameter Monitored: PM-10

Upper Permit Limit: 8.93 pounds per hour

Reference Test Method: RM 5 / 201 / 201A / 202

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2017.

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

Condition 33: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4

Item 33.1:

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

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Emission Unit: 1-GTDBS
Process: GB3

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:
Emission testing for this AOS condition is deferred until Emission Unit 1GTDBS operates on fuel oil. For the initial emissions testing after 1GTDBS operates on fuel oil, compliance with this condition for both Particulates and PM-10 will be determined using the RM 5 test results for filterable particulates only. Rensselaer Cogen may test for condensable particulate emissions (using RM 202) during the initial testing after 1GTDBS operates on fuel oil and use these results to propose revised total (filterable plus condensable) PM-10 limits for subsequent emissions testing. Compliance with the emission limit will be based on the average of three emission test runs.

**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: AVERAGING METHOD AS PER REFERENCE TEST

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METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2017.

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

Condition 34: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4

Item 34.1:

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 34.2:

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 7/30/2017.

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

Condition 35: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4

Item 35.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-GTDBS

Process: G01



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Emission Unit: 1-GTDBS
Process: GB1

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

Item 35.2:

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: 10.7 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 7/30/2017.

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

Condition 36: Compliance Certification

Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4

Item 36.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-GTDBS
Process: BW1 Emission Source: 000DB

Emission Unit: 1-GTDBS
Process: BW2 Emission Source: 000DB

Emission Unit: 1-GTDBS
Process: BW3 Emission Source: 000DB

Emission Unit: 1-GTDBS
Process: GB1 Emission Point: 00001
Emission Source: 000DB

Emission Unit: 1-GTDBS
Process: GB2 Emission Point: 00001
Emission Source: 000DB



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Emission Unit: 1-GTDBS
Process: GB3

Emission Point: 00001
Emission Source: 000DB

Item 36.2:

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 7/30/2017.

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

Condition 37: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4

Item 37.1:

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 37.2:

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,

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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 7/30/2017.

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

Condition 38: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4

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

Item 38.2:

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.

Compliance with the emission limit will be based on the average of three emission test runs.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 3.6 pounds per hour

Reference Test Method: RM 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

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Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2017.

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

Condition 39: Compliance Certification

Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4

Item 39.1:

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: GB2

Emission Unit: 1-GTDBS

Process: GB3

Regulated Contaminant(s):

CAS No: 007664-41-7 AMMONIA

Item 39.2:

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

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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 7/30/2017.

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

Condition 40: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4

Item 40.1:

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 40.2:

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:

Emission testing for this AOS condition is deferred until Emission Unit 1GTDBS operates on fuel oil. For the initial emissions testing after 1GTDBS operates on fuel oil, compliance with this condition for both Particulates and PM-10 will be determined using the RM 5 test results for filterable particulates only. Rensselaer Cogen may test for condensable particulate emissions (using RM 202) during the initial testing after 1GTDBS operates on fuel oil and use these results to propose revised total (filterable plus condensable) PM-10 limits for subsequent emissions testing. Compliance with the emission limit will be based on the average of three emission test runs.



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: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2017.

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

Condition 41: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement: 6 NYCRR 201-6.4

Item 41.1:

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 41.2:

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:

Emission testing for this AOS condition is deferred until Emission Unit 1GTDBS operates on fuel oil. For the initial emissions testing after 1GTDBS operates on fuel oil, compliance with this condition for both Particulates and PM-10 will be determined using the RM 5 test results for filterable particulates only. Rensselaer Cogen may test for condensable particulate emissions (using RM 202) during the initial testing after 1GTDBS operates on fuel oil and use these results to propose revised total (filterable plus condensable) PM-10 limits for subsequent emissions testing. Compliance with the emission limit will be based on the average of three emission test runs.

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: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2017.

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

Condition 42: Compliance Certification

Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement: 6 NYCRR 201-6.4

Item 42.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:



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: 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 7/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 44: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4

Item 44.1:
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 44.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:



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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 7/30/2017.

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

Condition 45: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4

Item 45.1:

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 45.2:

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,

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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 7/30/2017.

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

Condition 46: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4

Item 46.1:

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: 0NY075-00-5 PM-10

Item 46.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Compliance with this PM-10 emission limit must be demonstrated once during the term of the permit.

Reference Method 5 (RM-5) may be used in lieu of RM 201 or 201A to determine the filterable portion of the PM-10 emissions by assuming that all filterable particulate emissions are PM-10.

Parameter Monitored: PM-10

Upper Permit Limit: 6.55 pounds per hour

Reference Test Method: RM 5 / 201/ 201A / 202

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2017.

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

Condition 47: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4

Item 47.1:

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

Item 47.2:

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.

Compliance with the emission limit will be based on the average of three emission test runs.

Parameter Monitored: PARTICULATES

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: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2017.

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

Condition 48: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4

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: 0NY075-00-0 PARTICULATES

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CAS No: ONY075-00-5 PM-10

Item 48.2:

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:

Emission testing for this AOS condition is deferred until Emission Unit 1GTDBS operates on fuel oil. For the initial emissions testing after 1GTDBS operates on fuel oil, compliance with this condition for both Particulates and PM-10 will be determined using the RM 5 test results for filterable particulates only. Rensselaer Cogen may test for condensable particulate emissions (using RM 202) during the initial testing after 1GTDBS operates on fuel oil and use these results to propose revised total (filterable plus condensable) PM-10 limits for subsequent emissions testing. Compliance with the emission limit will be based on the average of three emission test runs.

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: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2017.

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

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Condition 49: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4

Item 49.1:

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: 0NY075-00-5 PM-10

Item 49.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Compliance with this PM-10 emission limit must be demonstrated once during the term of the permit.
Reference Method 5 (RM-5) may be used in lieu of RM 201 or 201A to determine the filterable portion of the PM-10 emissions by assuming that all filterable particulate emissions are PM-10.

Parameter Monitored: PM-10

Upper Permit Limit: 0.012 pounds per million Btus

Reference Test Method: RM 5/ 201 / 201A / 202

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2017.

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

Condition 50: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4

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

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Process: GB2

Emission Unit: 1-GTDBS

Process: GB3

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 50.2:

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/Oxymat 6E

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 DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2017.

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

Condition 51: Compliance Certification

Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4

Item 51.1:



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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 51.2:

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: 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 7/30/2017.

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

Condition 52: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4

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: 0NY998-00-0 VOC

Item 52.2:

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 7/30/2017.

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

Condition 53: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement: 6 NYCRR 201-6.4

Item 53.1:

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

Item 53.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)



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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/Oxymat 6E

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 7/30/2017.

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

Condition 54: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4

Item 54.1:

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

Item 54.2:

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.

Compliance with the emission limit will be based on the average of three emission test runs.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 6.0 pounds per hour

Reference Test Method: RM 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



The initial report is due 7/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 55: Progress Reports Due Semiannually
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4 (d) (4)

Item 55.1:

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 56: Facility Permissible Emissions
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 56.1:

The sum of emissions from the emission units specified in this permit shall not equal or exceed the following

Potential To Emit (PTE) rate for each regulated contaminant:

CAS No: 007446-09-5 PTE: 69,834 pounds per year
Name: SULFUR DIOXIDE

CAS No: 0NY210-00-0 PTE: 346,414 pounds per year
Name: OXIDES OF NITROGEN

Condition 57: Capping Monitoring Condition
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR Subpart 201-7

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.

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

Item 57.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

The facility shall meet a facility-wide emission cap of 173 tons/year for Nitrogen Oxides (NO_x). This shall include all emissions from the turbine, the emergency diesel engines, and the hot water boiler. Emissions from the combustion turbine and duct burner (Emission Unit 1GTDBS) will be determined based on data from the NO_x CEMS required elsewhere in this permit. Emissions from the emergency diesel engines (1EDGEN and 1FPDSL) and the hot water boiler (1HWBLR) will be estimated based on the fuel usage or run hours and published emission factors.

Records shall be kept according to the provisions of 6 NYCRR Part 201-7.1(g) and shall certify annually that the cap is being met as provided in Part 201-7.1(h).

Parameter Monitored: OXIDES OF NITROGEN

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Upper Permit Limit: 173 tons per year
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION
Averaging Method: ANNUAL TOTAL ROLLED MONTHLY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 58: Capping Monitoring Condition
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

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:

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

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2017.

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

Condition 59: Capping Monitoring Condition

Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR Subpart 201-7

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.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 59.7:

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.

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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 7/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 60: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR Subpart 202-1

Item 60.1:

The Compliance Certification activity will be performed for the Facility.

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

Item 60.2:

Compliance Certification shall include the following monitoring:

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 7/30/2017.

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

Condition 61: Acceptable procedures
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 202-1.3



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Item 61.1:

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 62: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 202-2.1

Item 62.1:

The Compliance Certification activity will be performed for the Facility.

Item 62.2:

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. Electronic statements may be submitted electronically.

Monitoring Frequency: ANNUALLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due by April 15th for previous calendar year

Condition 63: Air pollution prohibited
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 211.1

Item 63.1:

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 64: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 225-1.2 (g)

Item 64.1:

The Compliance Certification activity will be performed for the Facility.

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Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Item 64.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Owners and/or operators of a stationary combustion installation that fires distillate oil other than number two heating oil are limited to the purchase of distillate oil with 0.0015 percent sulfur by weight or less on or after July 1, 2014. Compliance with this limit will be based on vendor certifications.

Data collected pursuant to this Subpart must be tabulated and summarized in a form acceptable to the Department, and must be retained for at least five years. The owner of a Title V facility must furnish to the Department such records and summaries, on a semiannual calendar basis, within 30 days after the end of the semiannual period. All other facility owners or distributors must submit these records and summaries upon request of the Department.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.0015 percent by weight

Monitoring Frequency: PER DELIVERY

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

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 65: Compliance Certification

Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 225-1.2 (h)

Item 65.1:

The Compliance Certification activity will be performed for the Facility.

Item 65.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Owners and/or operators of a stationary combustion installations that fire distillate oil are limited to the firing of distillate oil with 0.0015 percent sulfur by weight or less on or after July 1, 2016. Compliance with this limit will be based on vendor certifications.

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Facility DEC ID: 4381400029



Data collected pursuant to this Subpart must be tabulated and summarized in a form acceptable to the Department, and must be retained for at least five years. The owner of a Title V facility must furnish to the Department such records and summaries, on a semiannual calendar basis, within 30 days after the end of the semiannual period. All other facility owners or distributors must submit these records and summaries upon request of the Department.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL
Parameter Monitored: SULFUR CONTENT
Upper Permit Limit: 0.0015 percent by weight
Monitoring Frequency: PER DELIVERY
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 66: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

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

Item 66.1:

The Compliance Certification activity will be performed for the Facility.

Item 66.2:

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 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

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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: DAILY
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 7/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 67: EPA Region 2 address.
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:40CFR 60.4, NSPS Subpart A

Item 67.1:

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 68: Compliance Certification

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Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Effective between the dates of 05/22/2017 and 05/21/2022

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

Item 68.1:

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

Emission Unit: 1-GTDBS

Process: BW2

Emission Source: 000DB

Emission Unit: 1-GTDBS

Process: GB2

Emission Source: 000DB

Item 68.2:

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.

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Item 71.2:

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 7/30/2017.

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

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

**Condition 72: Emission Point Definition By Emission Unit
Effective between the dates of 05/22/2017 and 05/21/2022**

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 72.1:

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.): 4719.935 NYTME (km.): 602.482 Building: B003

Item 72.2:

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.): 4719.987 NYTME (km.): 602.518 Building: B004

Item 72.3:

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

Emission Unit: 1-GTDBS

Emission Point: 00001

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Height (ft.): 150 Diameter (in.): 138
NYTMN (km.): 4720.005 NYTME (km.): 602.504 Building: B001

Item 72.4:

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.): 4719.987 NYTME (km.): 602.488 Building: B001

Item 72.5:

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.): 4719.934 NYTME (km.): 602.459 Building: B002

Condition 73: Process Definition By Emission Unit

Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 73.1:

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 firing #2 fuel oil.

Emission Source/Control: EDGEN - Combustion
Design Capacity: 750 horsepower (mechanical)

Item 73.2:

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:
Emergency firewater pump diesel engine firing #2 fuel oil.

Emission Source/Control: FPDSL - Combustion
Design Capacity: 182 horsepower (mechanical)

Item 73.3:

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

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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 73.4:

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 73.5:

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.

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 73.6:

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 73.7:

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 73.8:

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

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

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

Item 73.9:

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 NOx control. 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

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

Item 73.10:

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 NOx control. 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.

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 73.11:



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 73.12:

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 73.13:

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:
Hot water boiler firing natural gas or propane fuel.

Emission Source/Control: HWBLR - Combustion
Design Capacity: 2.1 million Btu per hour

Item 73.14:

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

Emission Unit: T-00110
Process: VT1 Source Classification Code: 2-01-001-08
Process Description: Main #2 fuel oil tank vent.

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

Condition 74: Process Permissible Emissions
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 74.1:

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-EDGEN Process: DG1
CAS No: 0NY210-00-0
Name: OXIDES OF NITROGEN
PTE(s): 18.8 pounds per hour
3.85 pounds per million Btus
9,417 pounds per year

Emission Unit: 1-FPDSL Process: FP1
CAS No: 0NY210-00-0
Name: OXIDES OF NITROGEN
PTE(s): 19.5 pounds per hour
5.6 pounds per million Btus
9,750 pounds per year

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
227,760 pounds per year

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
152,886 pounds per year

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



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227,760 pounds per year

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

152,886 pounds per year

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

152,886 pounds per year

Condition 75: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4

Item 75.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 75.2:

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.

BW2, BW3, and GW2 are alternative operating scenarios and will only be included in the calculation if fuel oil is fired in the combustion turbine while water washing.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: WATER

Parameter Monitored: WATER

Upper Permit Limit: 500 hours per year

Monitoring Frequency: MONTHLY

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Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 76: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4

Item 76.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

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

Item 76.2:

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 7/30/2017.

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

Condition 77: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4

Item 77.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

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

Item 77.2:

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Compliance Certification shall include the following monitoring:

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 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 7/30/2017.

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

Condition 78: Compliance Certification

Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4

Item 78.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 78.2:

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 CEM data.

Manufacturer Name/Model Number: Siemens Ultramat/Oxymat 6E



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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 7/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 79: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement: 6 NYCRR 201-6.4

Item 79.1:
The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

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

Item 79.2:
Compliance Certification shall include the following monitoring:

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: Rosemont 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 7/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 80: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022



Applicable Federal Requirement:6 NYCRR 201-6.4

Item 80.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

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

Item 80.2:

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/Oxymat 6E

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 7/30/2017.

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

Condition 81: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4

Item 81.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Item 81.2:

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,

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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 7/30/2017.

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

Condition 82: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4

Item 82.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Item 82.2:

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 7/30/2017.

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

Condition 83: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4 (b)

Item 83.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Regulated Contaminant(s):

CAS No: 007664-41-7 AMMONIA

Item 83.2:

Compliance Certification shall include the following monitoring:



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Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

For any hour in which the hourly average O₂ concentration measured by the CEMS exceeds 19.0 percent, a diluent cap value of 19.0 percent O₂ may be used to calculate NH₃ emission rates.

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 7/30/2017.

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

Condition 84: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4 (b)

Item 84.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Item 84.2:

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. For any hour in which the hourly average O₂ concentration measured by the CEMS exceeds 19.0 percent, a diluent cap value of 19.0 percent O₂ may be used to calculate the NO_x and CO emission rates.

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 7/30/2017.

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

Condition 85: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4 (b)

New York State Department of Environmental Conservation

Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Item 85.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Item 85.2:

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 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 7/30/2017.

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

Condition 86: Compliance Certification

Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 227-2.4

Item 86.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Regulated Contaminant(s):

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

Item 86.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

As documented in the NYSDEC letter dated June 19, 2014, Rensselaer Cogen has submitted a timely proposal for RACT and NYSDEC concurs that the current NOx emission controls (steam injection for the combustion turbine and selective catalytic reduction) and the NOx emission limits in this Permit are RACT for Emission Unit 1-GTDBS.

Monitoring Frequency: SEMI-ANNUALLY



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Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 87: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 227-2.6

Item 87.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Regulated Contaminant(s):

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

Item 87.2:

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 7/30/2017.

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

Condition 88: Recordkeeping requirements.
Effective between the dates of 05/22/2017 and 05/21/2022

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

Item 88.1:

This Condition applies to Emission Unit: 1-GTDBS

Item 88.2:

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.

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Condition 89: Excess Emissions Report
Effective between the dates of 05/22/2017 and 05/21/2022

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

Item 89.1:
This Condition applies to Emission Unit: 1-GTDBS

Item 89.2:
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 90: Performance testing timeline.
Effective between the dates of 05/22/2017 and 05/21/2022

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

Item 90.1:
This Condition applies to Emission Unit: 1-GTDBS

Item 90.2:
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 91: Required performance test information.
Effective between the dates of 05/22/2017 and 05/21/2022

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

Item 91.1:
This Condition applies to Emission Unit: 1-GTDBS

Item 91.2:
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 92: Prior notice.
Effective between the dates of 05/22/2017 and 05/21/2022

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

Item 92.1:
This Condition applies to Emission Unit: 1-GTDBS

Item 92.2:



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 96: Compliance with Standards and Maintenance Requirements
Effective between the dates of 05/22/2017 and 05/21/2022**

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

Item 96.1:

This Condition applies to Emission Unit: 1-GTDBS

Item 96.2:

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 97: Circumvention.
Effective between the dates of 05/22/2017 and 05/21/2022**

Applicable Federal Requirement:40CFR 60.12, NSPS Subpart A

Item 97.1:

This Condition applies to Emission Unit: 1-GTDBS

Item 97.2:

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 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 98: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022**

Applicable Federal Requirement:40CFR 60.13, NSPS Subpart A

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Item 98.1:

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 98.2:

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 7/30/2017.

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

Condition 99: Compliance Certification

Effective between the dates of 05/22/2017 and 05/21/2022

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

Item 99.1:

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 99.2:

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

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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 7/30/2017.

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

Condition 100: Modifications.

Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:40CFR 60.14, NSPS Subpart A

Item 100.1:

This Condition applies to Emission Unit: 1-GTDBS

Item 100.2:

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 101: Reconstruction.

Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:40CFR 60.15, NSPS Subpart A

Item 101.1:

This Condition applies to Emission Unit: 1-GTDBS

Item 101.2:

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;
- 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

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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 102: Standard for oxides of nitrogen.
Effective between the dates of 05/22/2017 and 05/21/2022

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

Item 102.1:
This Condition applies to Emission Unit: 1-GTDBS

Item 102.2:
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 103: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

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

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 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 7/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 104: Exemption from NOx standard.
Effective between the dates of 05/22/2017 and 05/21/2022

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

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Item 104.1:

This Condition applies to Emission Unit: 1-GTDBS

Item 104.2:

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

Condition 105: CEMS

Effective between the dates of 05/22/2017 and 05/21/2022

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

Item 105.1:

This Condition applies to Emission Unit: 1-GTDBS

Item 105.2:

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 NO_x 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 NO_x and O₂ monitors. As an alternative, a CO₂ monitor may be used to adjust the measured NO_x 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 106: Compliance Certification

Effective between the dates of 05/22/2017 and 05/21/2022

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

Item 106.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Item 106.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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 7/30/2017.

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

Condition 107: Compliance Certification

Effective between the dates of 05/22/2017 and 05/21/2022

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

Item 107.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Item 107.2:

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 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).



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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 7/30/2017.

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

Condition 108: Facility Subject to Title IV Acid Rain Regulations and Permitting

Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:40 CFR Part 72

Item 108.1:

This Condition applies to Emission Unit: 1-GTDBS

Item 108.2:

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 109: Compliance Certification

Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:40CFR 97.406, Subpart AAAAA

Item 109.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Regulated Contaminant(s):

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

Item 109.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(1) The facility shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§97.413 through 97.418 of Subpart AAAAA. The facility shall notify the Department of this representative (and alternative) with contact information upon issuance of this permit and when any changes are made to the representative (or alternative) or their contact information.

(2) The facility, and the designated representative, of each TR NOX Annual source (facility) and each TR NOx Annual Unit at the facility shall comply with the



monitoring, reporting, and recordkeeping requirements of §§97.430 through 97.435 of Subpart AAAAA and subpart H of part 75 of this chapter. This includes but is not limited to: requirements for installation, certification, and data accounting for all required monitoring systems; requirements for recording, reporting, and quality-assurance of the data; and certification of compliance of such data. Data from continuous emission monitoring equipment are submitted quarterly (calendar year). These reports are generally due 30 days after the end of a calendar quarter. All other monitoring data are submitted to the DEC semiannually (calendar year). These reports are due on January 30th and July 30th of each year.

(3) The emissions data determined shall be used to calculate allocations of TR NO_x Annual allowances and to determine compliance with the TR NO_x Annual emissions limitation and assurance provisions. As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NO_x Annual facility and each TR NO_x Annual Unit at the facility shall hold, in the facilities compliance account, TR NO_x Annual allowances available for deduction for such control period under §97.424(a) in an amount not less than the tons of total NO_x emissions for such control period from all TR NO_x Annual Units at the facility.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 110: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:40CFR 97.506, Subpart BBBBB

Item 110.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Regulated Contaminant(s):

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

Item 110.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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Facility DEC ID: 4381400029



(1) The facility shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§97.513 through 97.518 of Subpart BBBBB. The facility shall notify the Department of this representative (and alternative) with contact information upon issuance of this permit and when any changes are made to the representative (or alternative) or their contact information.

(2) The facility, and the designated representative, of each TR NOx Ozone Season source (facility) and each TR NOx Ozone Season Unit at the facility shall comply with the monitoring, reporting, and recordkeeping requirements of §§97.530 through 97.535 of Subpart BBBBB and subpart H of part 75 of this chapter. This includes but is not limited to: requirements for installation, certification, and data accounting for all required monitoring systems; requirements for recording, reporting, and quality-assurance of the data; and certification of compliance of such data. Data from continuous emission monitoring equipment are submitted quarterly (calendar year). These reports are generally due 30 days after the end of a calendar quarter. All other monitoring data are submitted to the DEC semiannually (calendar year). These reports are due on January 30th and July 30th of each year.

(3) The emissions data determined shall be used to calculate allocations of TR NOx Ozone Season allowances and to determine compliance with the TR NOx Ozone Season emissions limitation and assurance provisions. As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NOx Ozone Season facility and each TR NOx Ozone Season Unit at the facility shall hold, in the facilities compliance account, TR NOx Ozone Season allowances available for deduction for such control period under §97.524(a) in an amount not less than the tons of total NOx emissions for such control period from all TR NOx Ozone Season Units at the facility.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 111: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:40CFR 97.606, Subpart CCCCC

Item 111.1:

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The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 111.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(1) The facility shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§97.613 through 97.618 of Subpart CCCCC. The facility shall notify the Department of this representative (and alternative) with contact information upon issuance of this permit and when any changes are made to the representative (or alternative) or their contact information.

(2) The facility, and the designated representative, of each TR SO₂ Group 1 source (facility) and each TR SO₂ Group 1 Unit at the facility shall comply with the monitoring, reporting, and recordkeeping requirements of §§97.630 through 97.635 of Subpart CCCCC and subpart H of part 75 of this chapter. This includes but is not limited to: requirements for installation, certification, and data accounting for all required monitoring systems; requirements for recording, reporting, and quality-assurance of the data; and certification of compliance of such data. Data from continuous emission monitoring equipment are submitted quarterly (calendar year). These reports are generally due 30 days after the end of a calendar quarter. All other monitoring data are submitted to the DEC semiannually (calendar year). These reports are due on January 30th and July 30th of each year.

(3) The emissions data determined shall be used to calculate allocations of TR SO₂ Group 1 allowances and to determine compliance with the TR SO₂ Group 1 emissions limitation and assurance provisions. As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR SO₂ Group 1 facility and each TR SO₂ Group 1 Unit at the facility shall hold, in the facilities compliance account, TR SO₂ Group 1 allowances available for deduction for such control period under §97.624(a) in an amount not less than the tons of total SO₂ emissions for such control period from all TR SO₂ Group 1 Units at the facility.

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Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 112: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4

Item 112.1:

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 112.2:

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/Oxymat 6E

Parameter Monitored: CARBON MONOXIDE

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 7/30/2017.

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

Condition 113: Compliance Certification
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement:6 NYCRR 201-6.4

Item 113.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-GTDBS
Process: G02

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Permit ID: 4-3814-00029/00024

Facility DEC ID: 4381400029



Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 113.2:

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.

Manufacturer Name/Model Number: Siemens Ultramat/Oxymat 6E

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 7/30/2017.

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

Condition 114: Compliance Certification

Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement: 6 NYCRR 201-6.4

Item 114.1:

The Compliance Certification activity will be performed for:



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Emission Unit: 1-GTDBS
Process: GB1

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

Item 114.2:

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/Oxymat 6E

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 7/30/2017.

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

Condition 115: Compliance Certification

Effective between the dates of 05/22/2017 and 05/21/2022

Applicable Federal Requirement: 6 NYCRR 227-2.4 (d)

Item 115.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-HWBLR

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

Item 115.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a small boiler, small combustion turbine, or small internal combustion engine must perform an annual tune-up of their equipment. This tune-up should be performed in accordance with the requirements of the DAR-5 guidance document. Records of each tune-up must be kept on-site for a minimum of five years.

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Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2018.
Subsequent reports are due every 12 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: Emergency Defense - 6 NYCRR 201-1.5

An emergency, as defined by subpart 201-2, constitutes an affirmative defense to penalties sought in an enforcement action brought by the Department for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

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

(1) An emergency occurred and that the facility owner or operator can identify the cause(s) of the emergency;

(2) The equipment at the permitted facility causing the emergency was at the time being properly operated and maintained;

(3) During the period of the emergency the facility owner or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and

(4) The facility owner or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

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

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

Item B: 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 116: Contaminant List

Effective between the dates of 05/22/2017 and 05/21/2022

Applicable State Requirement:ECL 19-0301

Item 116.1:

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

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



Item 118.1:

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 119: Compliance Demonstration
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable State Requirement:6 NYCRR 242-1.5

Item 119.1:

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

Emission Unit: 1-GTDBS

Item 119.2:

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 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.

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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 7/30/2017.

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

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

Condition 120: Compliance Demonstration
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable State Requirement:6 NYCRR Subpart 242-4

Item 120.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-GTDBS

Regulated Contaminant(s):

CAS No: 000124-38-9 CARBON DIOXIDE

Item 120.2:

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;

(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

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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 121: Compliance Demonstration
Effective between the dates of 05/22/2017 and 05/21/2022

Applicable State Requirement:6 NYCRR 242-8.5

Item 121.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-GTDBS

Regulated Contaminant(s):

CAS No: 000124-38-9 CARBON DIOXIDE

Item 121.2:

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, NOx, 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 7/30/2017.

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