



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 9-0258-00018/00023
Effective Date: 12/30/2015 Expiration Date: 12/29/2020

Permit Issued To: ALLEGANY GENERATING STATION LLC
110 E SENECA ST
SHERRILL, NY 13461

Contact: GREG SHARLAND
ALLIANCE NYGT LLC
110 EAST SENECA ST
SHERRILL, NY 13461
(315) 363-7791

Facility: ALLEGANY GENERATING STATION
11537 ST RTE 19A
Hume, NY 14536

Contact: JOHN B KINGSTON
ALLEGANY GENERATING STATION
11537 ST RT 19A
Portageville, NY 14536
(585) 567-4191

Description:

This is renewal of the Title five (V) Operating Air Permit for Allegany Generating Station, formerly known as Rochester Gas and Electric' (RG&E), Allegany Station #133. This facility is located in the Town of Hume, Allegany County, and is an existing combined cycle combustion gas turbine plant with a nominal gross power rating of 65 MW. The gas turbine is a General Electric Model LM6000 and exhausts through a heat recovery steam generator (HRSG) with duct burners which generates steam for electrical production. The turbine and duct burners burn only natural gas. Nitrogen Oxide (NOx) emissions are reduced by injecting water into the turbine and with the use of a selective catalytic reduction (SCR) system for the exhaust gases. Even though Allegany's emissions do not require it to obtain a Title V Air Permit, it is required to have one because it has a Title IV Acid Rain permit which makes it an "affected source" in the Federal Acid Rain Program. 6 NYCRR Part 201-6.1(a) requires "affected sources" to obtain a Title V Permit. This facility is still considered an Area Source for Hazardous Air Pollutant emissions.

Permit conditions related to: Acid Deposition Reduction (ADR) NOx Budget Trading Program, 6 NYCRR Part 237, and the ADR Sulfur Dioxide (SO2) Budget Trading Program, 6 NYCRR Part 238, and the NOx Budget Program, 6 NYCRR Part 204 were not carried over from the previous permit because these regulations are no longer in effect and have been repealed.

As of 2015 regulations for the CAIR (Clean Air Interstate Rule) Program were also discontinued. This effects 6NYCRR Part 243: CAIR NOx Ozone Season Trading Program,



6NYCRR Part 244: CAIR NO_x Annual Trading Program and 6NYCRR Part 245: CAIR SO₂ Trading Program. With the discontinuance and repeal of these regulations, all permit conditions related to these regulations have been removed from the permit.

The Allegany Generating Station will now comply with the CSAPR (Cross-State Air Pollution Rule), which is managed by EPA, instead of the CAIR program.

The Department has a CO₂ (Carbon Dioxide) Budget Trading Program, 6 NYCRR Part 242, that limits CO₂ emissions to control greenhouse gas emissions. Allegany Generating Station is subject to the rule.

The permit carries over mass emission limits for the startup and shutdown periods of the gas combustion turbine. The emission limits are, 55.8 pounds of NO_x and 37.5 pounds of CO. The startup period is no more than 3 hours (180 minutes) and the shutdown is the last hour (60 minutes) of operation. The plant has emission limits at all stages of operation.

NO_x emissions from the combustion gas turbine and duct burner are regulated by several State and Federal regulations. Most NO_x and all of the CO conditions are cited under 6 NYCRR Part 201-7 because with these emission limits, the facility avoided the regulatory requirements of Prevention of Significant Deterioration (PSD), 40 CFR Part 52.21, and the NO_x Reasonably Available Control Technology (RACT), 6NYCRR Part 227-2. The emission limits in the Part 201-7 conditions are more stringent than the New Source Performance Standards (NSPS) for combustion Gas Turbines, 40 CFR Part 60 subpart GG, that apply to the turbine, and the NSPS for small Industrial-Commercial- Institutional boilers, 40 CFR Part 60 subpart Dc, that applies to the duct burner. However, conditions for subpart GG remains in the permit. Subpart Dc requires the amount fuel used in the duct burner to be recorded and submitted. Other regulations, such as the Acid Rain Program (Title IV), have separate fuel monitoring requirements.

The stack emission limits for carbon monoxide (CO) are 15ppm (parts per million) and 17.8 lb/hr and for NO_x are 9 ppm and 17.21 lb/hr for the operation of the turbine and duct burner together. The stack emission limits for CO are 15 ppm and 10 lb/hr and for NO_x are 9ppm and 14.84 lb/hr for the operation of the turbine alone. The installation and operation of a SCR unit was required to meet the 9 ppm NO_x limit at the final exhaust. A limit for ammonia slip associated with the SCR operation was set at 19.8 lb/hr. NO_x, CO, oxygen (O₂), and ammonia emissions must be monitored continuously. The CEMS for NO_x, O₂ and CO are required to meet the Quality Assurance/Quality Control requirements of 40 CFR Part 60, Appendixes B and F, or the QA/QC requirements of the Acid Rain Program in 40 CFR Part 75.

The hourly NO_x limit of 9 ppmv at 15% O₂ contained in this permit is substantially lower than the 4-hour rolling average NO_x limit of 114 ppmv at 15% O₂ from the New Source Performance Standards (NSPS) for Gas Turbines, 40 CFR 60.332. However the facility must comply with both limits.

Particulate emissions from this source were reevaluated for potential Prevention of Significant Deterioration (PSD) applicability according to Department policy. The initial performance test for particulate emissions was conducted according to EPA Method 5. The emission rate was determined to be within the limit established by the permit to construct. However, since that time there have been clarifications from EPA that particulate testing for PM-10 compliance must also include condensable particulate matter (CPM). The reevaluation calculated total PM-10 by adding the CPM rate (using the emission factor from EPA's AP-42 manual) to the measured particulate emission rate derived by the Method 5 source testing. By this method the total PM-10



potential to emit was determined to be 15.7 tons per year. This is substantially below the PSD applicability threshold for this source of 100 tons per year.

A Title IV (Acid Rain Phase 2) permit application has been submitted and the permit processing followed a parallel path to this Title V permit. Under 40 CFR Part 75, the facility is also required to monitor SO₂, NO_x and O₂ emissions along with the exhaust gas flow. Because the facility uses pipeline natural gas, the facility can determine its sulfur dioxide (SO₂) emissions by multiplying a SO₂ default emission rate, 0.0006 lb SO₂/MMBtu, by the hourly heat input rate as allowed by 40 CFR Part 75.11(d). This is an alternative to using a continuous emissions monitoring system (CEMS) for monitoring SO₂ emissions.

Exempt sources

Allegany Generating Station has several sources that are exempt from permitting. On site there are two 975 hp diesel fired emergency generators, a 302 hp diesel powered emergency fire pump and one 6.28 MMBtu/hr natural gas fired boiler. Ultra low sulfur diesel is used in the fire pump and both generators. The engines operate less than 500hr/yr and are exempt from permitting under 6NYCRR 200.1(cq). However, the engines are still subject to the maintenance requirements in 40 CFR 63 Subpart ZZZZ—National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. The boiler provides heat for the building when steam from the turbine is not available. Since the boiler is rated less than 10 MMBtu/hr it is consider exempt under 6NYCRR 201-3.2(c)(1)(i).

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: LISA M CZECHOWICZ
NYSDEC - REGION 9
270 MICHIGAN AVE
BUFFALO, NY 14203-2915

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
 - 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 9 HEADQUARTERS



DEC GENERAL CONDITIONS

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

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

GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department

Applicable State Requirement: ECL 19-0305

Item 1.1:

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

Item 1.2:

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

Item 1.3:

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

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

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

Item 2.1:

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

Condition 3: Applications for permit renewals, modifications and transfers

Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:

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

Item 3.2:

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

Item 3.3:

Permits are transferrable with the approval of the department unless specifically prohibited by



the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

Condition 4: Applications for permit renewals, modifications and transfers
Applicable State Requirement: 6 NYCRR 621.11

Item 4.1:

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

Item 4.3:

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

Item 5.1:

The Department reserves the right to 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 6: Submission of application for permit modification or renewal-REGION 9 HEADQUARTERS
Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 6.1:

Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 9 Headquarters
Division of Environmental Permits
270 Michigan Avenue
Buffalo, NY 14203-2915
(716) 851-7165

New York State Department of Environmental Conservation

Permit ID: 9-0258-00018/00023

Facility DEC ID: 9025800018



Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: ALLEGANY GENERATING STATION LLC
110 E SENECA ST
SHERRILL, NY 13461

Facility: ALLEGANY GENERATING STATION
11537 ST RTE 19A
Hume, NY 14536

Authorized Activity By Standard Industrial Classification Code:
4911 - ELECTRIC SERVICES
4931 - ELEC & OTHER SERVICES COMBINED

Permit Effective Date: 12/30/2015

Permit Expiration Date: 12/29/2020



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 202-2.1: Compliance Certification
 - 8 6 NYCRR 202-2.5: Recordkeeping requirements
 - 9 6 NYCRR 215.2: Open Fires - Prohibitions
 - 10 6 NYCRR 200.7: Maintenance of Equipment
 - 11 6 NYCRR 201-1.7: Recycling and Salvage
 - 12 6 NYCRR 201-1.8: Prohibition of Reintroduction of Collected Contaminants to the air
 - 13 6 NYCRR 201-3.2 (a): Exempt Sources - Proof of Eligibility
 - 14 6 NYCRR 201-3.3 (a): Trivial Sources - Proof of Eligibility
 - 15 6 NYCRR 201-6.4 (a) (4): Requirement to Provide Information
 - 16 6 NYCRR 201-6.4 (a) (8): Right to Inspect
 - 17 6 NYCRR 201-6.4 (f) (6): Off Permit Changes
 - 18 6 NYCRR 202-1.1: Required Emissions Tests
 - 19 40 CFR Part 68: Accidental release provisions.
 - 20 40CFR 82, Subpart F: Recycling and Emissions Reduction
 - 21 6 NYCRR Subpart 201-6: Emission Unit Definition
 - 22 6 NYCRR 201-6.4 (d) (4): Progress Reports Due Semiannually
 - 23 6 NYCRR 201-7.1: Facility Permissible Emissions
 - *24 6 NYCRR 201-7.1: Capping Monitoring Condition
 - 25 6 NYCRR 211.1: Air pollution prohibited
 - 26 40CFR 63, Subpart ZZZZ: Applicability
 - 27 40CFR 63, Subpart ZZZZ: Compliance and Enforcement
 - 28 40CFR 63.6603(a), Subpart ZZZZ: Compliance Certification
 - 29 40CFR 63.6625(f), Subpart ZZZZ: Compliance Certification
 - 30 40CFR 97.406, Subpart AAAAA: Compliance Certification
 - 31 40CFR 97.506, Subpart BBBBB: Compliance Certification
 - 32 40CFR 97.606, Subpart CCCCC: Compliance Certification
- #### Emission Unit Level
- 33 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
 - 34 6 NYCRR Subpart 201-6: Process Definition By Emission Unit
 - 35 6 NYCRR 201-7.1: Process Permissible Emissions
- #### EU=U-1GTDB
- 36 40CFR 60, NSPS Subpart A: Applicability of General Provisions of 40 CFR 60 Subpart A
 - 37 40CFR 60.334(b), NSPS Subpart GG: CEMS
 - 38 40CFR 72.6(a)(3)(i), Subpart A: Applicability of the Title IV Acid Rain Regulations to a particular "new" generator unit which consists of



one emission source.

EU=U-1GTDB,EP=00001

- 39 6 NYCRR Subpart 201-6: Compliance Certification
- *40 6 NYCRR 201-7.1: Capping Monitoring Condition
- *41 6 NYCRR 201-7.1: Capping Monitoring Condition
- 42 40CFR 60.48c(g), NSPS Subpart Dc: Compliance Certification
- 43 40CFR 60.332, NSPS Subpart GG: Compliance Certification

EU=U-1GTDB,EP=00001,Proc=GT1

- *44 6 NYCRR 201-7.1: Capping Monitoring Condition
- *45 6 NYCRR 201-7.1: Capping Monitoring Condition
- *46 6 NYCRR 201-7.1: Capping Monitoring Condition
- *47 6 NYCRR 201-7.1: Capping Monitoring Condition

EU=U-1GTDB,EP=00001,Proc=GT2

- *48 6 NYCRR 201-7.1: Capping Monitoring Condition
- *49 6 NYCRR 201-7.1: Capping Monitoring Condition
- *50 6 NYCRR 201-7.1: Capping Monitoring Condition
- *51 6 NYCRR 201-7.1: Capping Monitoring Condition

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 52 ECL 19-0301: Contaminant List
- 53 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities
- 54 6 NYCRR 242-1.5: CO2 Budget Trading Program - Excess emission requirements
- 55 6 NYCRR 242-1.5: Compliance Demonstration
- 56 6 NYCRR 242-1.5: Compliance Demonstration
- 57 6 NYCRR Subpart 242-4: Compliance Demonstration
- 58 6 NYCRR Subpart 242-8: Compliance Demonstration

Emission Unit Level

EU=U-1GTDB,EP=00001

- 59 6 NYCRR 212.9 (b): Compliance Demonstration
- 60 6 NYCRR 212.9 (b): Compliance Demonstration

NOTE: * preceding the condition number indicates capping.



FEDERALLY ENFORCEABLE CONDITIONS
****** Facility Level ******

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

Item A: Emergency Defense - 6 NYCRR 201-1.5

An emergency, 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: Public Access to Recordkeeping for Title V Facilities - 6 NYCRR 201-1.10 (b)

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



Item C: Timely Application for the Renewal of Title V Permits - 6 NYCRR 201-6.2 (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 D: 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 E: 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 F: 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 G: 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 H: 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 I: 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 J: 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 K: 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. If additional applicable requirements under the Act become applicable where this permit's remaining term is



three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 201-6.7 and Part 621.

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

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

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

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

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

Item L: Permit Exclusion - ECL 19-0305

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



(NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

Item M: Federally Enforceable Requirements - 40 CFR 70.6 (b)
All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

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

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

Condition 1: Acceptable Ambient Air Quality
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable Federal Requirement:6 NYCRR 200.6

Item 1.1:
Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

Condition 2: Fees
Effective between the dates of 12/30/2015 and 12/29/2020

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 12/30/2015 and 12/29/2020

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 12/30/2015 and 12/29/2020**

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 12/30/2015 and 12/29/2020**

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 1/30/2016.

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

Condition 6: Compliance Certification
Effective between the dates of 12/30/2015 and 12/29/2020

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.

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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 9 Headquarters
270 Michigan Avenue
Buffalo, NY 14203-2915

The address for the BQA is as follows:

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

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2016.
Subsequent reports are due on the same day each year

Condition 7: Compliance Certification
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable Federal Requirement:6 NYCRR 202-2.1

Item 7.1:

The Compliance Certification activity will be performed for the Facility.



Item 7.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

Monitoring Frequency: ANNUALLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due by April 15th for previous calendar year

**Condition 8: Recordkeeping requirements
Effective between the dates of 12/30/2015 and 12/29/2020**

Applicable Federal Requirement:6 NYCRR 202-2.5

Item 8.1:

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

- (1) a copy of each emission statement submitted to the department; and
- (2) records indicating how the information submitted in the emission statement was determined, including any calculations, data, measurements, and estimates used.

(b) These records shall be made available at the facility to the representatives of the department upon request during normal business hours.

**Condition 9: Open Fires - Prohibitions
Effective between the dates of 12/30/2015 and 12/29/2020**

Applicable Federal Requirement:6 NYCRR 215.2

Item 9.1:

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

Item 9.2

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

- (a) On-site burning in any town with a total population less than 20,000 of downed limbs and branches (including branches with attached leaves or needles) less than six inches in diameter and eight feet in length between May 15th and the following March 15th. For the purposes of this subdivision, the total population of a town shall include the population of any village or portion thereof located within the town. However, this subdivision shall not be construed to allow burning within any village.
- (b) Barbecue grills, maple sugar arches and similar outdoor cooking devices when actually used for cooking or processing food.
- (c) Small fires used for cooking and camp fires provided that only charcoal or untreated wood is used as fuel and the fire is not left unattended until extinguished.
- (d) On-site burning of agricultural wastes as part of a valid agricultural operation on contiguous



agricultural lands larger than five acres actively devoted to agricultural or horticultural use, provided such waste is actually grown or generated on those lands and such waste is capable of being fully burned within a 24-hour period.

- (e) The use of liquid petroleum fueled smudge pots to prevent frost damage to crops.
- (f) Ceremonial or celebratory bonfires where not otherwise prohibited by law, provided that only untreated wood or other agricultural products are used as fuel and the fire is not left unattended until extinguished.
- (g) Small fires that are used to dispose of a flag or religious item, and small fires or other smoke producing process where not otherwise prohibited by law that are used in connection with a religious ceremony.
- (h) Burning on an emergency basis of explosive or other dangerous or contraband materials by police or other public safety organization.
- (i) Prescribed burns performed according to Part 194 of this Title.
- (j) Fire training, including firefighting, fire rescue, and fire/arson investigation training, performed under applicable rules and guidelines of the New York State Department of State's Office of Fire Prevention and Control. For fire training performed on acquired structures, the structures must be emptied and stripped of any material that is toxic, hazardous or likely to emit toxic smoke (such as asbestos, asphalt shingles and vinyl siding or other vinyl products) prior to burning and must be at least 300 feet from other occupied structures. No more than one structure per lot or within a 300 foot radius (whichever is bigger) may be burned in a training exercise.
- (k) Individual open fires as approved by the Director of the Division of Air Resources as may be required in response to an outbreak of a plant or animal disease upon request by the commissioner of the Department of Agriculture and Markets, or for the destruction of invasive plant and insect species.
- (l) Individual open fires that are otherwise authorized under the environmental conservation law, or by rule or regulation of the Department.

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

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

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

**Condition 10: Maintenance of Equipment
Effective between the dates of 12/30/2015 and 12/29/2020**

Applicable Federal Requirement: 6 NYCRR 200.7

Item 10.1:

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



Condition 11: Recycling and Salvage
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable Federal Requirement:6 NYCRR 201-1.7

Item 11.1:

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 12: Prohibition of Reintroduction of Collected Contaminants to the air

Effective between the dates of 12/30/2015 and 12/29/2020

Applicable Federal Requirement:6 NYCRR 201-1.8

Item 12.1:

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

Condition 13: Exempt Sources - Proof of Eligibility
Effective between the dates of 12/30/2015 and 12/29/2020

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

Item 13.1:

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 14: Trivial Sources - Proof of Eligibility
Effective between the dates of 12/30/2015 and 12/29/2020

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

Item 14.1:

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 15: Requirement to Provide Information
Effective between the dates of 12/30/2015 and 12/29/2020

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

Item 15.1:

The owner and/or operator shall furnish to the department, within a reasonable time, any



information that the department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the department copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the administrator along with a claim of confidentiality, if the administrator initiated the request for information or otherwise has need of it.

Condition 16: Right to Inspect
Effective between the dates of 12/30/2015 and 12/29/2020

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

Item 16.1:

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

(i) enter upon the permittee's premises where a facility subject to the permitting requirements of this Subpart is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;

(ii) have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;

(iii) inspect at reasonable times any emission sources, equipment (including monitoring and air pollution control equipment), practices, and operations regulated or required under the permit; and

(iv) sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

Condition 17: Off Permit Changes
Effective between the dates of 12/30/2015 and 12/29/2020

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

Item 17.1:

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.

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

Condition 18: Required Emissions Tests
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable Federal Requirement:6 NYCRR 202-1.1

Item 18.1:

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 19: Accidental release provisions.
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable Federal Requirement:40 CFR Part 68

Item 19.1:

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 20: Recycling and Emissions Reduction
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable Federal Requirement:40CFR 82, Subpart F

Item 20.1:

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 21: Emission Unit Definition
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 21.1:

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

Emission Unit: U-1GTDB

Emission Unit Description:

This emission unit consists of one (1) combined-cycle gas turbine, equipped with selective catalytic reduction (SCR) and water injection for NOx emissions control. The SCR and water injection operate whenever the gas turbine is operating. The combustion gas turbine is equipped with a heat recovery steam generator and duct burners. All flue gases generated through the combined combustion gas turbine/heat recovery steam generator train are exhausted to the atmosphere through a single 134.5 inch diameter 213 foot tall exhaust stack.

Building(s): GEN BLDG

Condition 22: Progress Reports Due Semiannually
Effective between the dates of 12/30/2015 and 12/29/2020

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

Item 22.1:

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 23: Facility Permissible Emissions
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable Federal Requirement:6 NYCRR 201-7.1

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Item 23.1:

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: 0NY210-00-0

PTE: 190,000 pounds per year

Name: OXIDES OF NITROGEN

Condition 24: Capping Monitoring Condition
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 24.1:

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:

6 NYCRR 227-2.1

Item 24.2:

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

Item 24.3:

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 24.4:

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 24.5:

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 24.6:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

New York State Department of Environmental Conservation

Permit ID: 9-0258-00018/00023

Facility DEC ID: 9025800018



Item 24.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

1.) The facility shall limit emissions of NO_x to 95 tpy as determined by summing the individual monthly emissions during any consecutive 12 month period according to the following:

En = facility wide NO_x emissions per rolling 12 month period

$$E_n = E_1 + E_2 + E_3 + E_4$$

E₁ = Gas burner and duct burner NO_x emissions as measured by the CEMS (tons/month)

E₂ = Boiler Emissions for space heating

$$E_2 = 0.032 \text{ lbs NO}_x / 1000000 \text{ Btu} \times 1050 \text{ Btu/cu. ft} \times \text{NG} \times \text{ton}/2000 \text{ lbs} \quad \text{NG} = \text{natural gas use (cu. ft/month)}$$

E₃ = Emergency generator set NO_x emissions

$$E_3 = 4.1 \text{ lbs NO}_x / \text{hour of operation} \times \text{hours of operation/month} \times \text{ton}/2000 \text{ lbs}$$

E₄ = Diesel internal combustion fire pump

$$E_4 = 17.3 \text{ Grams(GM)/brake horsepower(BHP)/hour of operation} \times 238 \text{ BHP} \times \text{hours of operation/month} \times \text{lbs}/454 \text{ GM} \times \text{ton}/2000 \text{ lbs.}$$

2.) On a quarterly basis, submit a summary of the actual 12-month NO_x emissions for each month.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 95 tons

Monitoring Frequency: MONTHLY

Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2016.

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

Condition 25: Air pollution prohibited
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable Federal Requirement:6 NYCRR 211.1



Item 25.1:

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 26: Applicability
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable Federal Requirement:40CFR 63, Subpart ZZZZ

Item 26.1:

Facilities that have reciprocating internal combustion engines must comply with applicable portions of 40 CFR 63 subpart ZZZZ.

Condition 27: Compliance and Enforcement
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable Federal Requirement:40CFR 63, Subpart ZZZZ

Item 27.1:

The Department has not accepted delegation of 40 CFR Part 63 Subpart ZZZZ. Any questions concerning compliance and/or enforcement of this regulation should be referred to USEPA Region 2, 290 Broadway, 21st Floor, New York, NY 10007-1866; (212) 637-4080. Should the Department decide to accept delegation of 40 CFR Part 63 Subpart ZZZZ during the term of this permit, enforcement of this regulation will revert to the Department as of the effective date of delegation.

Condition 28: Compliance Certification
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable Federal Requirement:40CFR 63.6603(a), Subpart ZZZZ

Item 28.1:

The Compliance Certification activity will be performed for the Facility.

Item 28.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an existing emergency and black start compression ignition stationary RICE located at an



area source of HAP emissions must comply with the following maintenance procedures:

- (1) Change oil and filter every 500 hours of operation or annually, whichever comes first;
- (2) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary;
- (3) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

Initial compliance will be demonstrated according to the provisions in 40 CFR 63.6630.

Continuous compliance will then be demonstrated according to 40 CFR 63.6640. The facility must keep records according to the provisions in 40 CFR 63.6655 and submit the notifications and reports listed in 40 CFR 63.6645 and 63.6650.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 29: Compliance Certification
Effective between the dates of 12/30/2015 and 12/29/2020

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

Item 29.1:

The Compliance Certification activity will be performed for the Facility.

Item 29.2:

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.

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 30: Compliance Certification
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable Federal Requirement:40CFR 97.406, Subpart AAAAA



Item 30.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 30.2:

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 NOx Annual allowances and to determine compliance with the TR NOx 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 NOx Annual facility and each TR NOx Annual Unit at the facility shall hold, in the facilities compliance account, TR NOx Annual allowances available for deduction for such control period under §97.424(a) in an amount not less than the tons of total NOx emissions for such control period from all TR



NOX Annual Units at the facility.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 31: Compliance Certification
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable Federal Requirement:40CFR 97.506, Subpart BBBBB

Item 31.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 31.2:

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 §§97.513 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 NO_x Ozone Season source (facility) and each TR NO_x 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 NO_x Ozone Season allowances



and to determine compliance with the TR NO_x 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 NO_x Ozone Season facility and each TR NO_x Ozone Season Unit at the facility shall hold, in the facilities compliance account, TR NO_x Ozone Season allowances available for deduction for such control period under §97.524(a) in an amount not less than the tons of total NO_x emissions for such control period from all TR NO_x Ozone Season Units at the facility.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 32: Compliance Certification
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable Federal Requirement:40CFR 97.606, Subpart CCCCC

Item 32.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 32.2:

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.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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

Condition 33: Emission Point Definition By Emission Unit
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 33.1:

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

Emission Unit: U-1GTDB

Emission Point: 00001

Height (ft.): 213

Diameter (in.): 134

NYTMN (km.): 4710.212 NYTME (km.): 247.876 Building: GEN BLDG

Condition 34: Process Definition By Emission Unit
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 34.1:

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

Emission Unit: U-1GTDB



Process: GT1 Source Classification Code: 2-01-002-01
Process Description:
Natural gas combustion in the gas turbine without
operation of duct burner.

Emission Source/Control: GASTB - Combustion
Design Capacity: 412.5 million Btu per hour

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

Emission Source/Control: WTRIN - Control
Control Type: STEAM OR WATER INJECTION

Item 34.2:

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

Emission Unit: U-1GTDB
Process: GT2 Source Classification Code: 2-01-002-09
Process Description:
Natural gas combustion in the gas turbine and duct burner
(simultaneously).

Emission Source/Control: DCTBN - Combustion
Design Capacity: 81.1 million Btu per hour

Emission Source/Control: GASTB - Combustion
Design Capacity: 412.5 million Btu per hour

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

Emission Source/Control: WTRIN - Control
Control Type: STEAM OR WATER INJECTION

**Condition 35: Process Permissible Emissions
Effective between the dates of 12/30/2015 and 12/29/2020**

Applicable Federal Requirement:6 NYCRR 201-7.1

Item 35.1:

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: U-1GTDB Process: GT1
CAS No: 000630-08-0
Name: CARBON MONOXIDE
PTE(s): 10 pounds per hour
87,600 pounds per year

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Emission Unit: U-1GTDB

Process: GT2

CAS No: 000630-08-0

Name: CARBON MONOXIDE

PTE(s): 17.8 pounds per hour

155,928 pounds per year

Emission Unit: U-1GTDB

Process: GT1

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

PTE(s): 14.84 pounds per hour

129,998 pounds per year

Emission Unit: U-1GTDB

Process: GT2

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

PTE(s): 17.21 pounds per hour

150,760 pounds per year

Condition 36: Applicability of General Provisions of 40 CFR 60 Subpart A Effective between the dates of 12/30/2015 and 12/29/2020

Applicable Federal Requirement:40CFR 60, NSPS Subpart A

Item 36.1:

This Condition applies to Emission Unit: U-1GTDB

Item 36.2:

This emission source is subject to the applicable General Provisions of 40 CFR 60. The facility owner is responsible for reviewing these general provisions in detail and complying with all applicable technical, administrative and reporting requirements.

Condition 37: CEMS

Effective between the dates of 12/30/2015 and 12/29/2020

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

Item 37.1:

This Condition applies to Emission Unit: U-1GTDB

Item 37.2:

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



adjustments to 15 percent O₂, or by using the CO₂ readings directly to make the adjustments, as described in Method 20. If the option to use a CEMS is chosen, the CEMS shall be installed, certified, maintained and operated as specified in 40 CFR 60.334(b)(1), (2) and (3).

Condition 38: Applicability of the Title IV Acid Rain Regulations to a particular "new" generator unit which consists of one emission source.

Effective between the dates of 12/30/2015 and 12/29/2020

Applicable Federal Requirement:40CFR 72.6(a)(3)(i), Subpart A

Item 38.1:

This Condition applies to Emission Unit: U-1GTDB

Item 38.2:

This emission source is an affected unit and is subject to the requirements of the Acid Rain Program. These requirements are included in 40 CFR Parts 72, 73, 74, 75, 76, 77, and 78.

Condition 39: Compliance Certification

Effective between the dates of 12/30/2015 and 12/29/2020

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 39.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-1GTDB

Emission Point: 00001

Regulated Contaminant(s):

CAS No: 000630-08-0

CARBON MONOXIDE

Item 39.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

1.) During periods of gas turbine water washing, carbon monoxide emissions from the gas turbine and maximum in-stack emissions from the gas turbine/duct burner are allowed to exceed the limits contained elsewhere in this permit but at no time shall they exceed 45 ppmv (dry, corrected to 15% oxygen) for a 1 hour average and 53.4 pounds per hour. Emissions during turbine water washing shall be monitored using the existing continuous emissions monitoring system (CEMS).

2.) Water washing of the turbine as described in item 1 above shall not exceed 500 hours per 12-month period.



3.) The facility shall maintain a log on site which lists the date, time and duration of each water wash and the total hours of water washing during each 12 month period. This 12 month total shall be calculated by the 15th of the month for the previous 12 months starting on the 1st day of the first month and ending on the last day of the last month.

4.) Emissions of carbon monoxide exceeding the normal operation permit limits attributed to water washing shall be identified in each quarterly report.

Parameter Monitored: TURBINE WATER WASHING

Upper Permit Limit: 500 hours

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2016.

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

Condition 40: Capping Monitoring Condition
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 40.1:

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 40.2:

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

Item 40.3:

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 40.4:

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

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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 40.5:

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 40.6:

The Compliance Certification activity will be performed for:

Emission Unit: U-1GTDB Emission Point: 00001

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

Item 40.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

STARTUP or SHUTDOWN Emission Limit

- 1.) The combustion gas turbine shall not emit more than 55.8 pounds of NOx during a startup or shutdown period. A startup period begins when the combustion process is initiated and lasts for three consecutive clock hours. A shutdown period is the last hour of operation prior to the unit coming off line (combustion process ended). A clock hour starts at the top of the hour and includes 60 consecutive minutes, for example, 1:00 PM through 1:59 PM is a clock hour.
- 2.) The total emissions from each startup and shutdown period shall be recorded.
- 3.) CEMS calibrations shall be avoided during the startup or shutdown periods when feasible.
- 4.) Excess emissions shall be reported to the Department within 48 hours of occurrence and include an explanation of the cause, the corrective action and the actual emissions.
- 5.) A summary of the startup and shutdown exceedances shall be submitted semi-annually.

Manufacturer Name/Model Number: Rosemount Model 951C

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 55.8 pounds

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Reference Test Method: 40 CFR Part 60, App A Meth 7e & Performance Spec 6

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED PER

OCCURRENCE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2016.

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

Condition 41: Capping Monitoring Condition
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable Federal Requirement:6 NYCRR 201-7.1

Item 41.1:

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 41.2:

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

Item 41.3:

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 41.4:

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 41.5:

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 41.6:

The Compliance Certification activity will be performed for:

Emission Unit: U-1GTDB

Emission Point: 00001



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

Item 41.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

STARTUP or SHUTDOWN Emission Limit

- 1.) The combustion gas turbine shall not emit more than 37.8 pounds of CO during a startup or shutdown period. A startup period begins when the combustion process is initiated and lasts for three clock hours. A shutdown period is the last our of operation prior to the unit coming off line (combustion process ended).
- 2.) The total emissions from each startup and shutdown period shall be recorded.
- 3.) CEMS calibrations shall be avoided during the startup or shutdown periods when feasible.
- 4.) Excess emissions shall be reported to the Department within 48 hours of occurrence and include an explanation of the cause, the corrective action and the actual emissions.
- 5.) A summary of startup and shutdown exceedances shall be submitted semi-annually.

Manufacturer Name/Model Number: Siemens Ultramat 5E

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 37.8 pounds

Reference Test Method: 40CFR Part 60 App A Method 10 & Performance Spec 6

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED PER OCCURRENCE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2016.

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

Condition 42: Compliance Certification
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable Federal Requirement: 40CFR 60.48c(g), NSPS Subpart Dc

Item 42.1:

The Compliance Certification activity will be performed for:



Emission Unit: U-1GTDB Emission Point: 00001

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

Item 42.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

1. The facility shall record and maintain records of the amount of fuel combusted in the duct burner during each calendar month.
2. The monthly fuel use records for the duct burner must be made available for review upon request.

Monitoring Frequency: MONTHLY

Averaging Method: CALENDAR MONTH TOTAL

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 43: Compliance Certification

Effective between the dates of 12/30/2015 and 12/29/2020

Applicable Federal Requirement:40CFR 60.332, NSPS Subpart GG

Item 43.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-1GTDB Emission Point: 00001

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

Item 43.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

- 1.) Oxides of nitrogen emissions from the operation of the turbine alone are limited to 114 ppmvd (by volume, dry) corrected to 15% oxygen. This limit applies at all loads of operation including startup and shutdown periods.
- 2.) The facility shall install, calibrate, maintain and operate a continuous monitoring and recording system (CEMS) to measure NO_x and O₂ in the gas turbine/duct burner exhaust which complies with Performance Specification 2 and 3 in Appendix B and the Quality Assurance Procedures in Appendix F of 40 CFR Part 60 or



more stringent requirements of 40 CFR Part 75 where applicable. The CEMS shall measure NOX in ppmvd.

3.) Excess emissions shall be reported according to 40 CFR Part 60.7(c) and Quality Assurance Data according to 40 CFR 60 Appendix F.

4.) The facility shall submit a quarterly written CEMS excess emissions and quality assurance monitoring report to NYSDEC and EPA Region 2 for every calendar year quarter.

5) This 114 ppmvd limit is less restrictive than the NOx limit that was accepted to avoid the requirements of Prevention of Significant Deterioration, 40 CFR Part 52, which is 9 ppmvd corrected to 15% oxygen, averaged over a 1-hour period. The facility must comply with both limits. The 9 ppmvd NOx limit is a separate permit condition under citation 6 NYCRR Part 201-7.1.

Manufacturer Name/Model Number: Rosemount Model 951C

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 114 parts per million by volume
(dry, corrected to 15% O₂)

Reference Test Method: 40CFR Part 60, Method 7E

Monitoring Frequency: CONTINUOUS

Averaging Method: 4-HOUR ROLLING AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2016.

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

Condition 44: Capping Monitoring Condition
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 44.1:

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 44.2:

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

Item 44.3:

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.

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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 44.4:

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 44.5:

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 44.6:

The Compliance Certification activity will be performed for:

Emission Unit: U-1GTDB Emission Point: 00001
Process: GT1

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

Item 44.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

- 1.) Oxides of nitrogen emissions from the operation of the turbine alone are limited to 14.84 lb/hr. This limit applies during all loads of operation except during startup and shutdown which have their own mass emission limits elsewhere in this permit.
- 2.) The facility shall install, calibrate, maintain and operate a continuous monitoring and recording system (CEMS) to measure NO_x and O₂ in the gas turbine/duct burner exhaust which complies with Performance Specification 6 in Appendix B and the Quality Assurance Procedures in Appendix F of 40 CFR Part 60 or more stringent requirements of 40 CFR Part 75 where applicable. The CEMS shall measure NO_x lb/hr.
- 3.) Excess emissions shall be reported according to 40 CFR Part 60.7(c) and Quality Assurance Data according to 40 CFR 60 Appendix F.
- 4.) The facility shall submit a quarterly written CEMS



Item 45.5:

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 45.6:

The Compliance Certification activity will be performed for:

Emission Unit: U-1GTDB Emission Point: 00001
Process: GT1

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

Item 45.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

- 1.) Oxides of nitrogen emissions from the operation of the turbine and the duct burner are limited to 9 ppmvd (by volume, dry) corrected to 15% O₂. This limit applies at all loads of operation except during startup or shutdown.
- 2.) The facility shall install, calibrate, maintain and operate a continuous monitoring and recording system (CEMS) to measure NO_x and O₂ in the gas turbine/duct burner exhaust which complies with Performance Specification 2 in Appendix B and the Quality Assurance Procedures in Appendix F of 40 CFR Part 60 or more stringent requirements of 40 CFR Part 75 where applicable. The CEMS shall measure NO_x in ppmvd.
- 3.) Excess emissions shall be reported according to 40 CFR Part 60.7(c) and Quality Assurance Data according to 40 CFR 60 Appendix F.
- 4.) The facility shall submit a quarterly written CEMS excess emissions and quality assurance monitoring report to NYSDEC and EPA Region 2 for every calendar year quarter.
- 5.) All emission limits are based on heat input corresponding to the higher heating value of the fuel.
- 6.) The turbine and duct burner shall only be fired on natural gas.



7.) This 9 ppmvd limit is more restrictive than the applicable NOx limit in the New Source Performance Standards for Gas Turbines, 40CFR Part 60.332, which is 114 ppmvd corrected to 15% oxygen, averaged over a 4-hour period. The facility must comply with both limits. The 114 ppmvd NOx limit is in a separate permit condition under citation 40 CFR Part 60.332.

Manufacturer Name/Model Number: Rosemount Model 951C

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 9 parts per million by volume (dry, corrected to 15% O₂)

Reference Test Method: 40CFR Part 60, Method 7E & Performance Spec. 2

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2016.

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

Condition 46: Capping Monitoring Condition
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 46.1:

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 46.2:

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

Item 46.3:

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 46.4:

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.

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Item 46.5:

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 46.6:

The Compliance Certification activity will be performed for:

Emission Unit: U-1GTDB Emission Point: 00001
Process: GT1

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

Item 46.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

- 1.) Carbon monoxide emissions from the operation of the turbine alone are limited to 15 ppmvd (by volume, dry) corrected to 15% O₂. This limit applies at all loads of operation except during startup or shutdown.
- 2.) The facility shall install, calibrate, maintain and operate a continuous monitoring and recording system (CEMS) to measure CO and O₂ in the gas turbine/duct burner exhaust which complies with Performance Specification 4A in Appendix B and the Quality Assurance Procedures in Appendix F of 40 CFR Part 60 or more stringent requirements of 40 CFR Part 75 where applicable. The CEMS shall measure CO in ppmvd.
- 3.) Excess emissions shall be reported according to 40 CFR Part 60.7(c) and Quality Assurance Data according to 40 CFR 60 Appendix F.
- 4.) The facility shall submit a quarterly written CEMS excess emissions and quality assurance monitoring report to NYSDEC and EPA Region 2 for every calendar year quarter.
- 5.) All emission limits are based on heat input corresponding to the higher heating value of the fuel.
- 6.) The turbine shall only be fired on natural gas.

Manufacturer Name/Model Number: Thermo Scientific Model 48I

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 15 parts per million by volume (dry,

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corrected to 15% O2)
Reference Test Method: 40CFR Part 60, Method 10 & Performance Spec. 4A
Monitoring Frequency: CONTINUOUS
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2016.
Subsequent reports are due every 3 calendar month(s).

Condition 47: Capping Monitoring Condition
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable Federal Requirement:6 NYCRR 201-7.1

Item 47.1:
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 47.2:
Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 47.3:
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 47.4:
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 47.5:
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 47.6:
The Compliance Certification activity will be performed for:

Emission Unit: U-1GTDB Emission Point: 00001
Process: GT1

New York State Department of Environmental Conservation

Permit ID: 9-0258-00018/00023

Facility DEC ID: 9025800018



Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 47.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

- 1.) Carbon monoxide emissions from the operation of the turbine alone are limited to 10 lb/hr. This limit applies during all loads of operation except during startup and shutdown which have their own mass emission limits elsewhere in this permit.
- 2.) The facility shall install, calibrate, maintain and operate a continuous monitoring and recording system (CEMS) to measure CO and O₂ in the gas turbine/duct burner exhaust which complies with Performance Specification 6 in Appendix B and the Quality Assurance Procedures in Appendix F of 40 CFR Part 60 or more stringent requirements of 40 CFR Part 75 where applicable. The CEMS shall measure CO in lb/hr.
- 3.) Excess emissions shall be reported according to 40 CFR Part 60.7(c) and Quality Assurance Data according to 40 CFR 60 Appendix F.
- 4.) The facility shall submit a quarterly written CEMS excess emissions and quality assurance monitoring report to NYSDEC and EPA Region 2 for every calendar year quarter.
- 5.) All emission limits are based on heat input corresponding to the higher heating value of the fuel.
- 6.) The turbine shall only be fired on natural gas.

Manufacturer Name/Model Number: Thermo Scientific Model 48I

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 10 pounds per hour

Reference Test Method: 40CFR Part 60, Method 10 & Performance Spec. 6

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2016.

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

Condition 48: Capping Monitoring Condition
Effective between the dates of 12/30/2015 and 12/29/2020



Applicable Federal Requirement:6 NYCRR 201-7.1

Item 48.1:

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 48.2:

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

Item 48.3:

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 48.4:

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 48.5:

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 48.6:

The Compliance Certification activity will be performed for:

Emission Unit: U-1GTDB Emission Point: 00001
Process: GT2

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

Item 48.7:

Compliance Certification shall include the following monitoring:

Capping: Yes
Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)
Monitoring Description:
1.) Oxides of nitrogen emissions from the operation of the turbine and the duct burner are limited to 9 ppmvd (by



volume, dry) corrected to 15% O₂. This limit applies at all loads of operation except during startup or shutdown.

2.) The facility shall install, calibrate, maintain and operate a continuous monitoring and recording system (CEMS) to measure NO_x and O₂ in the gas turbine/duct burner exhaust which complies with Performance Specification 2 in Appendix B and the Quality Assurance Procedures in Appendix F of 40 CFR Part 60 or more stringent requirements of 40 CFR Part 75 where applicable. The CEMS shall measure NO_x in ppmvd.

3.) Excess emissions shall be reported according to 40 CFR Part 60.7(c) and Quality Assurance Data according to 40 CFR 60 Appendix F.

4.) The facility shall submit a quarterly written CEMS excess emissions and quality assurance monitoring report to NYSDEC and EPA Region 2 for every calendar year quarter.

5.) All emission limits are based on heat input corresponding to the higher heating value of the fuel.

6.) The turbine and duct burner shall only be fired on natural gas.

7.) This 9 ppmvd limit is more restrictive than the applicable NO_x limit in the New Source Performance Standards for Gas Turbines, 40CFR Part 60.332, which is 114 ppmvd corrected to 15% oxygen, averaged over a 4-hour period. The facility must comply with both limits. The 114 ppmvd NO_x limit is in a separate permit condition under citation 40 CFR Part 60.332.

Manufacturer Name/Model Number: Rosemount Model 951C

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 9 parts per million by volume (dry, corrected to 15% O₂)

Reference Test Method: 40CFR Part 60, Method 7E & Performance Spec. 2

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2016.

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

Condition 49: Capping Monitoring Condition
Effective between the dates of 12/30/2015 and 12/29/2020



Applicable Federal Requirement:6 NYCRR 201-7.1

Item 49.1:

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 49.2:

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

Item 49.3:

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 49.4:

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 49.5:

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 49.6:

The Compliance Certification activity will be performed for:

Emission Unit: U-1GTDB Emission Point: 00001
Process: GT2

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

Item 49.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

- 1.) Oxides of nitrogen emissions from the operation of the turbine and the duct burner are limited to 17.21 lb/hr. This limit applies during all loads of operation



except during startup and shutdown which have their own mass emission limits elsewhere in this permit.

- 2.) The facility shall install, calibrate, maintain and operate a continuous monitoring and recording system (CEMS) to measure NO_x and O₂ in the gas turbine/duct burner exhaust which complies with Performance Specification 6 in Appendix B and the Quality Assurance Procedures in Appendix F of 40 CFR Part 60 or more stringent requirements of 40 CFR Part 75 where applicable. The CEMS shall measure NO_x in lb/hr.
- 3.) Excess emissions shall be reported according to 40 CFR Part 60.7(c) and Quality Assurance Data according to 40 CFR 60 Appendix F.
- 4.) The facility shall submit a quarterly written CEMS excess emissions and quality assurance monitoring report to NYSDEC and EPA Region 2 for every calendar year quarter.
- 5.) All emission limits are based on heat input corresponding to the higher heating value of the fuel.
- 6.) The turbine and duct burner shall only be fired on natural gas.

Manufacturer Name/Model Number: Rosemount Model 951C
Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 17.21 pounds per hour
Reference Test Method: 40CFR Part 60, Method 7E & Performance Spec. 6
Monitoring Frequency: CONTINUOUS
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2016.
Subsequent reports are due every 3 calendar month(s).

Condition 50: Capping Monitoring Condition
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 50.1:

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 50.2:

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

Item 50.3:

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 50.4:

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 50.5:

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 50.6:

The Compliance Certification activity will be performed for:

Emission Unit: U-1GTDB Emission Point: 00001
Process: GT2

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

Item 50.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

1.) Carbon monoxide emissions from the operation of the turbine and the duct burner are limited to 17.8 lb/hr. This limit applies during all loads of operation except during startup and shutdown which have their own mass emission limits elsewhere in this permit.

2.) The facility shall install, calibrate, maintain and operate a continuous monitoring and recording system (CEMS) to measure CO and O₂ in the gas turbine/duct burner exhaust which complies with Performance Specification 6 in Appendix B and the Quality Assurance Procedures in Appendix F of 40 CFR Part 60 or more stringent requirements of 40 CFR Part 75 where applicable.



The CEMS shall measure CO in lb/hr.

3.) Excess emissions shall be reported according to 40 CFR Part 60.7(c) and Quality Assurance Data according to 40 CFR 60 Appendix F.

4.) The facility shall submit a quarterly written CEMS excess emissions and quality assurance monitoring report to NYSDEC and EPA Region 2 for every calendar year quarter.

5.) All emission limits are based on heat input corresponding to the higher heating value of the fuel.

6.) The turbine and duct burner shall only be fired on natural gas.

Manufacturer Name/Model Number: Thermo Scientific Model 48I
Parameter Monitored: CARBON MONOXIDE
Upper Permit Limit: 17.8 pounds per hour
Reference Test Method: 40CFR Part 60 Method 10 & Performance Spec. 6
Monitoring Frequency: CONTINUOUS
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2016.
Subsequent reports are due every 3 calendar month(s).

Condition 51: Capping Monitoring Condition
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 51.1:

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 51.2:

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

Item 51.3:

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 51.4:

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 51.5:

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 51.6:

The Compliance Certification activity will be performed for:

Emission Unit: U-1GTDB Emission Point: 00001
Process: GT2

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

Item 51.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

- 1.) Carbon monoxide emissions from the operation of the turbine and the duct burner are limited to 15 ppmvd (by volume, dry) corrected to 15% O₂. This limit applies during all loads of operation except during startup and shutdown.
- 2.) The facility shall install, calibrate, maintain and operate a continuous monitoring and recording system (CEMS) to measure CO and O₂ in the gas turbine/duct burner exhaust which complies with Performance Specification 2 in Appendix B and the Quality Assurance Procedures in Appendix F of 40 CFR Part 60 or more stringent requirements of 40 CFR Part 75 where applicable. The CEMS shall measure CO in ppmvd.
- 3.) Excess emissions shall be reported according to 40 CFR Part 60.7(c) and Quality Assurance Data according to 40 CFR 60 Appendix F.
- 4.) The facility shall submit a quarterly written CEMS excess emissions and quality assurance monitoring report to NYSDEC and EPA Region 2 for every calendar year quarter.

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Facility DEC ID: 9025800018



5.) All emission limits are based on heat input corresponding to the higher heating value of the fuel.

6.) The turbine and duct burner shall only be fired on natural gas.

Manufacturer Name/Model Number: Thermo Scientific Model 48I

Parameter Monitored: CARBON MONOXIDE

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

Reference Test Method: 40 CFR Part 60, Method 10 & Performance Spec. 4A

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2016.

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



STATE ONLY ENFORCEABLE CONDITIONS
****** Facility Level ******

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

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

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

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

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

Condition 52: Contaminant List
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable State Requirement:ECL 19-0301

Item 52.1:
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: 0NY210-00-0
Name: OXIDES OF NITROGEN

Condition 53: Malfunctions and start-up/shutdown activities
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable State Requirement:6 NYCRR 201-1.4

Item 53.1:

- (a) The facility owner or operator shall take all necessary and appropriate actions to prevent the emission of air pollutants that result in contravention of any applicable emission standard during periods of start-up, shutdown, or malfunction.
- (b) The facility owner or operator shall compile and maintain records of all equipment malfunctions, maintenance, or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when requested to do so, or when so required by a condition of a permit issued for the corresponding air contamination source. Such reports shall state whether any violations occurred and, if so, whether they were unavoidable, include the time, frequency and duration of the maintenance and/or start-up/shutdown activities, and an estimate of the emission rates of any air contaminants released. Such records shall be maintained for a period of at least five years and made available for review to department representatives upon request. Facility owners or operators subject to continuous stack monitoring and quarterly reporting requirements need not submit additional reports for equipment maintenance or start-up/shutdown activities for the facility to the department.
- (c) In the event that emissions of air contaminants in excess of any emission standard in this Subchapter occur due to a malfunction, the facility owner or operator shall compile and maintain records of the malfunction and notify the department as soon as possible during normal working hours, but not later than two working days after becoming aware that the malfunction occurred. When requested by the department, the facility owner or operator shall submit a written report to the department describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates.
- (d) The department may also require the owner or operator to include, in reports described under Subdivisions (b) and (c) of this Section, an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions.
- (e) A violation of any applicable emission standard resulting from start-up, shutdown, or malfunction conditions at a permitted or registered facility may not be subject to an enforcement action by the department and/or penalty if the department determines, in its sole discretion, that such a violation was unavoidable. The actions and recordkeeping and reporting requirements



listed above must be adhered to in such circumstances.

**Condition 54: CO2 Budget Trading Program - Excess emission requirements
Effective between the dates of 12/30/2015 and 12/29/2020**

Applicable State Requirement:6 NYCRR 242-1.5

Item 54.1:

The owners and operators of a CO2 budget source that has excess emissions in any control period shall:

- (1) forfeit the CO2 allowances required for deduction under 6 NYCRR Part 242-6.5(d)(1), provided CO2 offset allowances may not be used to cover any part of such excess emissions; and
- (2) pay any fine, penalty, or assessment or comply with any other remedy imposed under 6 NYCRR Part 242-6.5(d)(2).

**Condition 55: Compliance Demonstration
Effective between the dates of 12/30/2015 and 12/29/2020**

Applicable State Requirement:6 NYCRR 242-1.5

Item 55.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 55.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owners and operators and, to the extent applicable, the CO2 authorized account representative of each CO2 budget source and each CO2 budget unit at the source shall comply with the monitoring requirements of Subpart 242-8. The emissions measurements recorded and reported in accordance with Subpart 242-8 of this Part shall be used to determine compliance by the unit with the following CO2 requirements:

- (1) The owners and operators of each CO2 budget source and each CO2 budget unit at the source shall hold CO2 allowances available for compliance deductions under Section 242-6.5, as of the CO2 allowance transfer deadline, in the source's compliance account in an amount not less than the total CO2 emissions for the control period from all CO2 budget units at the source, as determined in accordance with Subparts 242-6 and 242-8.
- (2) Each ton of CO2 emitted in excess of the CO2 budget emissions limitation shall constitute a separate violation of this Part and applicable state law.



(3) A CO2 budget unit shall be subject to the requirements specified in item 1 starting on the later, of January 1, 2009 or the date on which the unit commences operation.

(4) CO2 allowances shall be held in, deducted from, or transferred among CO2 Allowance Tracking System accounts in accordance with Subparts 242-5, 242-6, and 242-7, and Section 242-10.7.

(5) A CO2 allowance shall not be deducted, in order to comply with the requirements specified in item 1, for a control period that ends prior to the allocation year for which the CO2 allowance was allocated. A CO2 offset allowance shall not be deducted, in order to comply with the requirements under item 1, beyond the applicable percent limitations set out in 6NYCRR Part 242-6.5(a)(3).

(6) A CO2 allowance under the CO2 Budget Trading Program is a limited authorization by the Department or a participating state to emit one ton of CO2 in accordance with the CO2 Budget Trading Program. No provision of the CO2 Budget Trading Program, the CO2 budget permit application, or the CO2 budget permit or any provision of law shall be construed to limit the authority of the Department or a participating state to terminate or limit such authorization.

(7) A CO2 allowance under the CO2 Budget Trading Program does not constitute a property right.

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 1/30/2016.

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

Condition 56: Compliance Demonstration
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable State Requirement:6 NYCRR 242-1.5

Item 56.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 56.2:

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.

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 1/30/2016.

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

Condition 57: Compliance Demonstration
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable State Requirement:6 NYCRR Subpart 242-4

Item 57.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):



CAS No: 000124-38-9 CARBON DIOXIDE

Item 57.2:

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 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 58: Compliance Demonstration
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable State Requirement: 6 NYCRR Subpart 242-8

Item 58.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000124-38-9 CARBON DIOXIDE

Item 58.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Recordkeeping and Reporting (6NYCRR Part 242-8.5)

(a) General provisions. The CO2 authorized account



representative shall comply with all recordkeeping and reporting requirements in this section, the applicable record keeping and reporting requirements under 40 CFR 75.73 and with the requirements of section 242-2.1(e) of this Part.

(b) Monitoring plans. The owner or operator of a CO₂ budget unit shall submit a monitoring plan in the manner prescribed in 40 CFR 75.62.

(c) Certification applications. The CO₂ authorized account representative shall submit an application to the department within 45 days after completing all CO₂ monitoring system initial certification or recertification tests required under section 242-8.2 of this Subpart including the information required under 40 CFR 75.63 and 40 CFR 75.53(e) and (f).

(d) Quarterly reports. The CO₂ authorized account representative shall submit quarterly reports, as follows:

(1) The CO₂ authorized account representative shall report the CO₂ mass emissions data and heat input data for the CO₂ budget unit, in an electronic format prescribed by the administrator unless otherwise prescribed by the department for each calendar quarter.

(2) The CO₂ authorized account representative shall submit each quarterly report to the department or its agent within 30 days following the end of the calendar quarter covered by the report. Quarterly reports shall be submitted in the manner specified in subpart H of 40 CFR part 75 and 40 CFR 75.64. Quarterly reports shall be submitted for each CO₂ budget unit (or group of units using a common stack), and shall include all of the data and information required in subpart G of 40 CFR part 75, except for opacity, NO_x, and SO₂ provisions.

(3) The CO₂ authorized account representative shall submit to the department or its agent a compliance certification in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The certification shall state that:

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

(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: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2016.

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

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

Condition 59: Compliance Demonstration
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable State Requirement: 6 NYCRR 212.9 (b)

Item 59.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-1GTDB Emission Point: 00001

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

Item 59.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

- 1.) The ammonia slip emissions shall not exceed 19.8 pounds per hour. This limit was established in the original DEC Certificate to Operate and is based on the initial emission testing.
- 2.) Once a permit term an ammonia stack test shall be conducted to demonstrate compliance with the respective emission limit, and to test the accuracy of the plants ammonia monitoring system.
- 3.) An emission test protocol must be submitted at least 30 days before the planned testing. A test report shall be submitted within 60 days of the test.

Parameter Monitored: AMMONIA

Upper Permit Limit: 19.8 pounds per hour

Reference Test Method: 40CFR Part 63 App A Meth. 301 & EPA CTM-027 & PS 6



Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 60: Compliance Demonstration
Effective between the dates of 12/30/2015 and 12/29/2020

Applicable State Requirement: 6 NYCRR 212.9 (b)

Item 60.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-1GTDB Emission Point: 00001

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

Item 60.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

- 1.) The ammonia slip emissions shall not exceed 19.8 pounds per hour. This limit was established in the original DEC Certificate to Operate and is based on the initial emission testing.
- 2.) The Data Acquisition System (DAS) calculates how much ammonia was consumed to reduce the NO_x across the SCR, and subtracts this from the amount of ammonia injected upstream of the SCR to calculate ammonia slip, NH₃ slip = NH₃ injected - NH₃ reacted with NO_x. The stoichiometric chemical reaction takes 1.067 moles of NH₃ to reduce one mole of NO_x across the SCR into nitrogen and water.
- 3.) The SCR inlet NO_x analyzer must follow the daily calibration requirements of 40 CFR Part 60, Appendix F and 40 CFR Part 60.13(d).
- 4.) The stack gas NO_x analyzer must conform to the 40 CFR Part 75 Quality Assurance conditions as required by other applicable regulations.
- 5.) Recordkeeping, reporting and monitoring shall be conducted according to 60.7 and 60.13.

Manufacturer Name/Model Number: ROSEMOUNT MODEL 951C
Parameter Monitored: AMMONIA
Upper Permit Limit: 19.8 pounds per hour
Reference Test Method: 40 CFR Part 60 App B & F, and 40 CFR Part 60.13
Monitoring Frequency: CONTINUOUS
Averaging Method: 1-HOUR AVERAGE

New York State Department of Environmental Conservation
Permit ID: 9-0258-00018/00023 **Facility DEC ID: 9025800018**



Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2016.
Subsequent reports are due every 3 calendar month(s).

