



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 7-5007-00030/00048
Effective Date: 06/03/2008 Expiration Date: 06/03/2013

Permit Issued To: CORNELL UNIVERSITY
300 DAY HALL
ITHACA, NY 14853-2801

Contact: PATRICK O MCNALLY
ENV COMPLIANCE OFFICE
361 PINE TREE RD 180 EAST HILL PLZ
ITHACA, NY 14850
(607) 255-2304

Facility: CORNELL UNIVERSITY MAIN CAMPUS
COLLEGE AVE
ITHACA, NY 14853

Description:

This permit authorizes the construction and operation of two stationary combustion turbine/heat recovery steam generators and two emergency diesel generators.

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: JOHN H MERRIMAN, JR
1285 FISHER AVE
CORTLAND, NY 13045-1090

Authorized Signature: _____ Date: ____ / ____ / ____



Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

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

Item B: Permittee's Contractors to Comply with Permit

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

Item C: Permittee Responsible for Obtaining Other Required Permits

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

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

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



LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions

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

Facility Level

Submission of application for permit modification or renewal-REGION 7
SUBOFFICE - CORTLAND



DEC GENERAL CONDITIONS
****** General Provisions ******
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: 6NYCRR 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: Permit modifications, suspensions or revocations by the Department



Applicable State Requirement: 6NYCRR 621.13

Item 4.1:

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

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

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

**Condition 5: Submission of application for permit modification or renewal-REGION 7
SUBOFFICE - CORTLAND**

Applicable State Requirement: 6NYCRR 621.6(a)

Item 5.1:

Submission of applications for permit modification or renewal are to be submitted to:

NYSDEC Regional Permit Administrator
Region 7 Sub-office
Division of Environmental Permits
1285 Fisher Avenue
Cortland, NY 13045-1090
(607) 753-3095

New York State Department of Environmental Conservation

Permit ID: 7-5007-00030/00048

Facility DEC ID: 7500700030



Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: CORNELL UNIVERSITY
300 DAY HALL
ITHACA, NY 14853-2801

Facility: CORNELL UNIVERSITY MAIN CAMPUS
COLLEGE AVE
ITHACA, NY 14853

Authorized Activity By Standard Industrial Classification Code:
8221 - COLLEGES AND UNIVERSITIES, NEC

Permit Effective Date: 06/03/2008

Permit Expiration Date: 06/03/2013



LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions

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Permit modifications, suspensions or revocations by the Department

Facility Level

Submission of application for permit modification or renewal-REGION 7
SUBOFFICE - CORTLAND

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 1 6NYCRR 200.6: Acceptable Ambient Air Quality
- 2 6NYCRR 201-7.1: Facility Permissible Emissions
- *3 6NYCRR 201-7.1: Capping Monitoring Condition
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- 15 6NYCRR 202-1: Compliance Demonstration
- 16 6NYCRR 202-1: Compliance Demonstration
- 17 6NYCRR 204: Compliance Demonstration
- 18 6NYCRR 243-1.6: Standard requirements
- 19 6NYCRR 243-1.6(e): NOx CAIR record keeping
- 20 6NYCRR 243-2.1: CAIR NOx certification statement
- 21 6NYCRR 243-8.1: General CEM requirements
- 22 6NYCRR 243-8.5: Quarterly CAIR NOx reports
- 23 40CFR 52.21, Subpart A: Compliance Demonstration
- 24 40CFR 63.6100, Subpart YYYY: Compliance Demonstration
- 25 40CFR 63.6100, Subpart YYYY: Compliance Demonstration
- 26 40CFR 63.6125(d), Subpart YYYY: Compliance Demonstration
- 27 40CFR 63.6145, Subpart YYYY: Notifications
- 28 40CFR 63.6150, Subpart YYYY: Reports
- 29 40CFR 63.6155, Subpart YYYY: Record keeping

Emission Unit Level

EU=1-CHP06

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- 31 40CFR 60, NSPS Subpart KKKK: Compliance Demonstration
- 32 40CFR 63.52(b)(1), Subpart B: Compliance Demonstration



EU=1-CHP07

- *33 6NYCRR 201-7.1: Capping Monitoring Condition
- 34 6NYCRR 227-1.3(a): Compliance Demonstration
- 35 40CFR 60.4205(b), NSPS Subpart IIII: Compliance Demonstration
- 36 40CFR 60.4206, NSPS Subpart IIII: Compliance Demonstration
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- 38 40CFR 60.4209(a), NSPS Subpart IIII: Compliance Demonstration
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subject to limited requirements

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 41 ECL 19-0301: Contaminant List
- 42 6NYCRR 201-1.4: Unavoidable noncompliance and violations
- 43 6NYCRR 201-5: Emission Unit Definition
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- 46 6NYCRR 201-5: Emission Point Definition By Emission Unit
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NOTE: * preceding the condition number indicates capping.



FEDERALLY ENFORCEABLE CONDITIONS

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

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

This section contains terms and conditions which are federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: Sealing - 6NYCRR Part 200.5

The Commissioner may seal an air contamination source to prevent its operation if compliance with 6 NYCRR Chapter III is not met within the time provided by an order of the Commissioner issued in the case of the violation.

Sealing means labeling or tagging a source to notify any person that operation of the source is prohibited, and also includes physical means of preventing the operation of an air contamination source without resulting in destruction of any equipment associated with such source, and includes, but is not limited to, bolting, chaining or wiring shut control panels, apertures or conduits associated with such source.

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

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

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

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

Item C: Maintenance of Equipment - 6NYCRR Part 200.7

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



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

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

(a) The owner and/or operator must apply for a permit for such emission source or register the facility in accordance with the provisions of Part 201.

(b) The emission source or facility is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing sources or facilities.

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

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

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

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

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

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

(4) The facility owner and/or operator notified the Department

within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

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

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



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

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

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

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

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

The owner and/or operator of an emission source or unit that is eligible to be exempt, may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

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

The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

Item J: Required Emission Tests - 6 NYCRR Part 202-1.1

An acceptable report of measured emissions shall be submitted, as may be required by the Commissioner, to ascertain compliance or noncompliance with any air



pollution code, rule, or regulation. Failure to submit a report acceptable to the Commissioner within the time stated shall be sufficient reason for the Commissioner to suspend or deny an operating permit. Notification and acceptable procedures are specified in 6NYCRR Part 202-1.

Item K: Visible Emissions Limited - 6 NYCRR Part 211.3

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

Item L: Open Fires - 6 NYCRR Part 215

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

Item M: 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 N: 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.

FEDERAL APPLICABLE REQUIREMENTS



The following conditions are federally enforceable.

Condition 1: Acceptable Ambient Air Quality
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement:6NYCRR 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: Facility Permissible Emissions
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement:6NYCRR 201-7.1

Item 2.1:

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: 000630-08-0 Name: CARBON MONOXIDE	PTE: 198,000 pounds per year
CAS No: 0NY210-00-0 Name: OXIDES OF NITROGEN	PTE: 78,000 pounds per year
CAS No: 0NY998-00-0 Name: VOC	PTE: 78,000 pounds per year

Condition 3: Capping Monitoring Condition
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement:6NYCRR 201-7.1

Item 3.1:

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:

6NYCRR 231-2
40CFR 52-A.21

Item 3.2:

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



On a calendar quarter basis, the owner or operator shall submit to the DEC, in a format acceptable to the DEC, a report of excess emissions and continuous emissions monitoring down time. The report shall identify each period of hourly emissions in excess of 2.5 ppm, corrected to 15% oxygen; the average value of the emission; the cause of the excess emission; and the corrective action taken. Periods of emissions in excess of 2.5 ppmdv, corrected to 15% oxygen, that occur during startup or shutdown shall be included in this report.

Manufacturer Name/Model Number: Continuous Emission Monitor

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 2.5 parts per million by volume
(dry, corrected to 15% O₂)

Reference Test Method: 40 CFR Part 75

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 7/30/2008.

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

Condition 4: Capping Monitoring Condition
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement:6NYCRR 201-7.1

Item 4.1:

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:

6NYCRR 231-2
40CFR 52-A.21

Item 4.2:

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

Item 4.3:

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 4.4:

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 4.5:

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 4.6:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: 1-CHP06

Process: GDO

Emission Unit: 1-CHP06

Process: GTO

Regulated Contaminant(s):

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

Item 4.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This emission limit applies to the combustion of ultra low sulfur diesel in each gas turbine, with or without operation of the duct burner, when the ambient temperature exceeds 0 degrees F.

Emissions of NOx from each gas turbine shall not exceed 9.0 ppm by volume on a block hour average, measured on a dry basis and corrected to 15% oxygen. This emission limit shall not apply during periods of startup or shutdown.

Compliance with this limit shall be determined using continuous emission monitors that satisfy the requirement of 40 CFR Part 75 as described elsewhere in this permit.

On a calendar quarter basis, the owner or operator shall submit to the DEC, in a format acceptable to the DEC, a report of excess emissions and continuous emissions monitoring down time. The report shall identify each period of hourly emissions in excess of 9.0 ppm, corrected to 15% oxygen; the average value of the emission; the cause of the excess emission; and the corrective action taken. Periods of emissions in excess of 9.0 ppmdv, corrected to 15% oxygen, that occur during startup or shutdown shall be included in this report.

Manufacturer Name/Model Number: Continuous Emission Monitor

Parameter Monitored: OXIDES OF NITROGEN



Upper Permit Limit: 9.0 parts per million by volume
(dry, corrected to 15% O₂)
Reference Test Method: 40 CFR Part 75
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 7/30/2008.
Subsequent reports are due every 3 calendar month(s).

Condition 5: Capping Monitoring Condition
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement: 6NYCRR 201-7.1

Item 5.1:

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:

40CFR 52-A.21

Item 5.2:

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

Item 5.3:

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 5.4:

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 5.5:

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 5.6:

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

Emission Unit: 1-CHP06

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE



Item 5.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This emission limit applies to the combustion of natural gas or ultra low sulfur diesel in each gas turbine with or without operation of the duct burner when the ambient temperature exceeds zero degrees F.

Emissions of carbon monoxide from each gas turbine/duct burner installation shall not exceed 10 ppm by volume on a block hour average, measured on a dry basis and corrected to 15% oxygen. This emission limit shall not apply during periods of startup or shutdown.

Compliance with this limit shall be determined using continuous emission monitors that satisfy the requirement of 40 CFR Part 60, Appendices B and F as described elsewhere in this permit.

On a calendar quarter basis, the owner or operator shall submit to the DEC, in a format acceptable to the DEC, a report of excess emissions and continuous emissions monitoring down time. The report shall identify each period of hourly emissions in excess of 10 ppm, corrected to 15% oxygen; the average value of the emission; the cause of the excess emission; and the corrective action taken. Periods of emissions in excess of 10 ppmdv, corrected to 15% oxygen, that occur during startup or shutdown shall be included in this report.

Manufacturer Name/Model Number: Continuous Emission Monitor

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 10 parts per million by volume (dry, corrected to 15% O₂)

Reference Test Method: 40 CFR Part 60 App B and F

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 7/30/2008.

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

Condition 6: Capping Monitoring Condition

Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement:6NYCRR 201-7.1

Item 6.1:

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



turbine shall be computed as the product of the heat input to the gas turbine/duct burner train and an emissions factor determined through stack emissions testing. Emissions from each emergency diesel generator shall be computed as the product of an emission factor (in pounds per bhp-hr), the capacity and the operating hours of the engines.

For each gas turbine/heat recovery steam generator train, the monthly VOC emissions are computed as the sum of the hourly VOC emissions in that period. For each gas turbine/heat recovery steam generator train, the hourly VOC emissions are computed as:

$$\text{Pounds of VOC emitted} = (\text{VOCGTG}) * (\text{HIGTG}) + (\text{VOCGDG}) * (\text{HIGDG}) + (\text{VOCGTO}) * (\text{HIGTO}) + (\text{VOCGDO}) * (\text{HIGDO})$$

where:

VOCGTG is the lb VOC/mmBtu when firing natural gas in the gas turbine but not the duct burner;

HIGTG is the heat input from natural gas combustion in the gas turbine when not firing the duct burner;

VOCGDG is the lb VOC/mmBtu when firing natural gas in both the gas turbine and the duct burner;

HIGDG is the heat input from natural gas firing in the gas turbine and the duct burner when operated at simultaneously;

VOCGTO is the lb VOC/mmBtu when firing ultra low sulfur diesel in the gas turbine but not the duct burner;

HIGTO is the heat input from ultra low sulfur diesel in the gas turbine when not firing the duct burner;

VOCGDO is the lb VOC/mmBtu when firing ultra low sulfur diesel in the gas turbine and natural gas in the duct burner;

HIGDO is the heat input from ultra low sulfur diesel in the gas turbine and natural gas in the duct burner when operated at simultaneously.

For each emergency diesel generator the monthly VOC emissions shall be computed as:

$$\text{Pounds of VOC emitted} = (\text{VOC Factor}) * (\text{capacity}) * (\text{operating hours of the emergency diesel generator})$$



Where

(VOC Factor) = pounds VOC per bhp-hr, and

Capacity = the maximum rated capacity of each engine in brake horsepower.

The emissions factors for the combustion turbines shall be derived from stack emissions testing conducted in accordance with 6 NYCRR 202-1 and a protocol approved by the DEC. Testing shall be conducted no later than 180 days after commencing operation. If multiple tests have been conducted, the emissions factors shall be based on the most recent tests upon written approval from the DEC.

In the absence of test data, emissions factors shall be based on manufacturer's data.

Emission factors for the emergency diesel generators shall be derived from manufacturer's data unless engine-specific emissions testing is conducted at the request of the DEC.

On a calendar year basis, the owner or operator shall submit to the DEC a report stating the actual quantity of VOC emitted during each month, and for each 12 month rolling period ending in that calendar year reporting period. Additionally, if total combined emissions from the two stationary gas turbines during any 12 month rolling exceed 39 tons, the owner or operator shall notify the DEC of such excess emissions in writing no later than 30 days after such occurrence.

Parameter Monitored: VOC

Upper Permit Limit: 39 tons per year

Reference Test Method: EPA Method 320 or alternative approved by the DEC

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 12 MONTH AVERAGE - ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2009.

Subsequent reports are due every 12 calendar month(s).

Condition 7: Capping Monitoring Condition
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 7.1:



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:

40CFR 52-A.21

Item 7.2:

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

Item 7.3:

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 7.4:

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 7.5:

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 7.6:

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

Emission Unit: 1-CHP06
Process: GTG

Emission Unit: 1-CHP06
Process: GDG

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

Item 7.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes
Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)
Monitoring Description:

This emission limit applies to the combustion of natural gas in either gas turbine, with or without operation of the duct burner, when the ambient temperature is less than or equal to zero degrees F.

Emissions of CO from each gas turbine shall not exceed 20



ppm by volume on a block hour average, measured on a dry basis and corrected to 15% oxygen. This emission limit shall not apply during periods of startup or shutdown.

Compliance with this limit shall be determined using continuous emission monitors that satisfy the requirement of 40 CFR Part 60 Appendices B and F as described elsewhere in this permit.

On a calendar quarter basis, the owner or operator shall submit to the DEC, in a format acceptable to the DEC, a report of excess emissions and continuous emissions monitoring down time. The report shall identify each period of hourly emissions in excess of 20 ppm, corrected to 15% oxygen; the average value of the emission; the cause of the excess emission; and the corrective action taken. Periods of emissions in excess of 20 ppmdv, corrected to 15% oxygen, that occur during startup or shutdown shall be included in this report.

Manufacturer Name/Model Number: Continuous Emission Monitor

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 20 parts per million by volume (dry, corrected to 15% O₂)

Reference Test Method: 40 CFR Part 60 App B and F

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 7/30/2008.

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

Condition 8: Capping Monitoring Condition
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement: 6NYCRR 201-7.1

Item 8.1:

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:

40CFR 52-A.21

Item 8.2:

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

Item 8.3:

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 8.4:

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 8.5:

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 8.6:

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

Emission Unit: 1-CHP06

Emission Unit: 1-CHP07

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 8.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The owner or operator shall not cause or allow combined emissions of carbon monoxide from the two stationary gas turbines/heat recovery steam generator sets and the two emergency diesel generators in excess of 99 tons per 12 month rolling period.

Emissions shall be computed as follows:

Tons of CO emitted per month = ((pounds CO emitted from gas turbine No. 1 in the calendar month) + (pounds CO emitted from gas turbine No. 2 in the calendar month) + (pounds CO emitted from EDG No. 1) + (pounds CO emitted from EDG No. 2))/2000

Where the "pounds of CO emitted from gas turbine No. 1 in the calendar month" is the sum of all hourly CO emissions from gas turbine No. 1 in the month, and "pounds of CO emitted from gas turbine No. 2 in the calendar month" is the sum of all hourly CO emissions from gas turbine No. 2 in the month, both as measured using CEMs and the procedures in 40 CFR Part 75. Each hourly CO mass emission is computed as the product of the CO



pounds/mmBtu, measured by the CEMs, and the gross heat input, measured by a fuel flow meter; and

Where the "pounds CO emitted from EDG No. 1" is the product of an emission factor, in units of pounds of CO/bhp-hr, the capacity of the engine, in brake horsepower, and the operating hours of EDG No. 1; and

Where the "pounds CO emitted from EDG No. 2" is the product of an emission factor, in units of pounds of CO/bhp-hr, the capacity of the engine, in brake horsepower, and the operating hours of EDG No. 2.

Emissions factors for EDG No 1. and EDG No. 2 shall be derived from manufacturer's data unless engine-specific emissions testing is conducted at the request of the DEC.

Emissions from the combustion turbines shall be determined using continuous emission monitors that satisfy the requirements of 40 CFR Part 60, Appendices B and F, except as follows: during periods of missing data due to monitor down time, the missing data procedures of 40 CFR Part 75, Subpart D, Table 1 shall apply.

On a calendar year basis, the owner or operator shall submit to the DEC a report stating the actual quantity of CO emitted during each month, and for each 12 month rolling period ending in that calendar year reporting period. Additionally, if total combined emissions from the two stationary gas turbines and two EDGs during any 12 month rolling exceed 99 tons, the owner or operator shall notify the DEC of such excess emissions in writing no later than 30 days after such occurrence.

Manufacturer Name/Model Number: Continuous Emission Monitor
Parameter Monitored: CARBON MONOXIDE
Upper Permit Limit: 99 tons per year
Reference Test Method: 40 CFR Part 60, App B and F
Monitoring Frequency: CONTINUOUS
Averaging Method: 12 MONTH AVERAGE - ROLLED MONTHLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2009.
Subsequent reports are due every 12 calendar month(s).

Condition 9: Capping Monitoring Condition
Effective between the dates of 06/03/2008 and 06/03/2013



Applicable Federal Requirement: 6NYCRR 201-7.1

Item 9.1:

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:

6NYCRR 231-2
40CFR 52-A.21

Item 9.2:

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

Item 9.3:

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 9.4:

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 9.5:

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 9.6:

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

Emission Unit: 1-CHP06
Process: GTG

Emission Unit: 1-CHP06
Process: GDG

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

Item 9.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes
Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)
Monitoring Description:
This emission limit applies to the combustion of natural



gas in each gas turbine, with or without operation of the duct burner, when the ambient temperatures less than or equal to 0 degrees F.

Emissions of NOx from each gas turbine shall not exceed 15 ppm by volume on a block hour average, measured on a dry basis and corrected to 15% oxygen. This emission limit shall not apply during periods of startup or shutdown.

Compliance with this limit shall be determined using continuous emission monitors that satisfy the requirement of 40 CFR Part 75 as described elsewhere in this permit.

On a calendar quarter basis, the owner or operator shall submit to the DEC, in a format acceptable to the DEC, a report of excess emissions and continuous emissions monitoring down time. The report shall identify each period of hourly emissions in excess of 15 ppm, corrected to 15% oxygen; the average value of the emission; the cause of the excess emission; and the corrective action taken. Periods of emissions in excess of 15 ppm, corrected to 15% oxygen, that occur during startup or shutdown shall be included in this report.

Manufacturer Name/Model Number: Continuous Emission Monitor

Parameter Monitored: OXIDES OF NITROGEN

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

Reference Test Method: 40 CFR Part 75

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 7/30/2008.

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

Condition 10: Capping Monitoring Condition
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement: 6NYCRR 201-7.1

Item 10.1:

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:

40CFR 52-A.21

Item 10.2:

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



Condition 11: Capping Monitoring Condition
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement: 6NYCRR 201-7.1

Item 11.1:

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:

6NYCRR 231-2
40CFR 52-A.21

Item 11.2:

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

Item 11.3:

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 11.4:

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 11.5:

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 11.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 11.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

Combined fuel oil combustion in gas turbines 1 and 2 is limited to no more than 2,086,000 gallons per 12 month rolling period. Compliance shall be demonstrated through fuel use records.



Fuel oil use shall be monitored using a fuel flow meter.

On a semiannual basis, the owner or operator shall submit to the DEC a report stating whether fuel oil use was monitored. Additionally, if, during any 12 month rolling period the fuel use exceeds 2,086,000 gallons, the owner or operator shall submit to the DEC a written notice no later than 30 days after such occurrence.

Parameter Monitored: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL

Upper Permit Limit: 2086000 gallons per year

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2008.

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

Condition 12: Capping Monitoring Condition
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement:6NYCRR 201-7.1

Item 12.1:

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:

6NYCRR 231-2
40CFR 52-A.21

Item 12.2:

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

Item 12.3:

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 12.4:

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 12.5:



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 12.6:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: 1-CHP06

Process: GDO

Emission Unit: 1-CHP06

Process: GTO

Regulated Contaminant(s):

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

Item 12.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This emission limit applies to the combustion of ultra low sulfur diesel in each gas turbine, with or without operation of the duct burner, when the ambient temperature is less than or equal to 0 degrees F.

Emissions of NOx from each gas turbine shall not exceed 25 ppm by volume on a block hour average, measured on a dry basis and corrected to 15% oxygen. This emission limit shall not apply during periods of startup or shutdown.

Compliance with this limit shall be determined using continuous emission monitors that satisfy the requirement of 40 CFR Part 75 as described elsewhere in this permit.

On a calendar quarter basis, the owner or operator shall submit to the DEC, in a format acceptable to the DEC, a report of excess emissions and continuous emissions monitoring down time. The report shall identify each period of hourly emissions in excess of 25 ppm, corrected to 15% oxygen; the average value of the emission; the cause of the excess emission; and the corrective action taken. Periods of emissions in excess of 25 ppm_{dv}, corrected to 15% oxygen, that occur during startup or shutdown shall be included in this report.

Manufacturer Name/Model Number: Continuous Emission Monitor

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 25 parts per million by volume (dry, corrected to 15% O₂)



Reference Test Method: 40 CFR Part 75
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 7/30/2008.
Subsequent reports are due every 3 calendar month(s).

Condition 13: Capping Monitoring Condition
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement:6NYCRR 201-7.1

Item 13.1:

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:

6NYCRR 231-2
40CFR 52-A.21

Item 13.2:

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

Item 13.3:

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 13.4:

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 13.5:

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 13.6:

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

Emission Unit: 1-CHP06

Emission Unit: 1-CHP07

Regulated Contaminant(s):

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



Item 13.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The owner or operator shall not cause or allow combined emissions of oxides of nitrogen from the two stationary gas turbines/heat recovery steam generator sets and the two emergency diesel generators in excess of 39 tons per 12 month rolling period.

Emissions shall be computed as follows:

Tons NO_x emitted per month = ((pounds NO_x emitted from gas turbine\duct burner No. 1 in the calendar month) + (pounds NO_x emitted from gas turbine\duct burner No. 2 in the calendar month)+ (pounds NO_x emitted from EDG No. 1) + (pounds NO_x emitted from EDG No. 2))/2000

Where the "pounds of NO_x emitted from gas turbine No. 1 in the calendar month" is the sum of all hourly NO_x emissions from gas turbine No. 1 in the month, and "pounds of NO_x emitted from gas turbine No. 2 in the calendar month" is the sum of all hourly NO_x emissions from gas turbine No. 2 in the month, both as measured using CEMs and the procedures in 40 CFR Part 75. Each hourly NO_x mass emission is computed as the product of the NO_x pounds/mmBtu, measured by the CEMs, and the gross heat input, measured by a fuel flow meter; and

Where the "pounds NO_x emitted from EDG No. 1" is the product of an emission factor, in units of pounds of NO_x/bhp-hr, the capacity of the engine, in brake horsepower, and the operating hours of EDG No. 1; and

Where the "pounds NO_x emitted from EDG No. 2" is the product of an emission factor, in units of pounds of NO_x/bhp-hr, and the capacity of the engine, in brake horsepower, and the operating hours of EDG No. 2.

Emissions factors for EDG No 1. and EDG No. 2 shall be derived from manufacturer's data unless engine-specific emissions testing is conducted at the request of the DEC.

Emissions from the combustion turbines shall be determined using continuous emission monitors that satisfy the requirements of 40 CFR Part 75 as described elsewhere in this permit. The bias adjustment factors need not apply.



During periods of missing data due to monitor down time, the missing data procedures of 40 CFR Part 75 shall apply.

On a calendar year basis, the owner or operator shall submit to the DEC a report stating the actual quantity of NOx emitted during each month, and for each 12 month rolling period ending in that calendar year reporting period. Additionally, if total combined emissions from the two stationary gas turbines during any 12 month rolling exceed 39 tons, the owner or operator shall notify the DEC of such excess emissions in writing no later than 30 days after such occurrence.

Manufacturer Name/Model Number: Continuous Emission Monitor
Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 39 tons per year
Reference Test Method: 40 CFR Part 75
Monitoring Frequency: CONTINUOUS
Averaging Method: 12 MONTH AVERAGE - ROLLED MONTHLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2009.
Subsequent reports are due every 12 calendar month(s).

Condition 14: Capping Monitoring Condition
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement: 6NYCRR 201-7.1

Item 14.1:

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:

40CFR 52-A.21

Item 14.2:

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

Item 14.3:

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 14.4:

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 14.5:

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 14.6:

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

Emission Unit: 1-CHP06
Process: GDO

Emission Unit: 1-CHP06
Process: GTO

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

Item 14.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This emission limit applies to the combustion of ultra low sulfur diesel in either gas turbine while operating with or without the duct burner, when the ambient temperature is less than or equal to zero degrees F.

Emissions of CO from each gas turbine shall not exceed 30 ppm by volume on a block hour average, measured on a dry basis and corrected to 15% oxygen. This emission limit shall not apply during periods of startup or shutdown.

Compliance with this limit shall be determined using continuous emission monitors that satisfy the requirement of 40 CFR Part 60, Appendices B and F as described elsewhere in this permit.

On a calendar quarter basis, the owner or operator shall submit to the DEC, in a format acceptable to the DEC, a report of excess emissions and continuous emissions monitoring down time. The report shall identify each period of hourly emissions in excess of 30 ppm, corrected to 15% oxygen; the average value of the emission; the cause of the excess emission; and the corrective action taken. Periods of emissions in excess of 30 ppmdv,



corrected to 15% oxygen, that occur during startup or shutdown shall be included in this report.

Manufacturer Name/Model Number: Continuous Emission monitor

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 30 parts per million by volume (dry, corrected to 15% O₂)

Reference Test Method: 40 CFR Part 60, App B and F

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 7/30/2008.

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

Condition 15: Compliance Demonstration
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement:6NYCRR 202-1

Item 15.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: 1-CHP06

Item 15.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This condition applies to each NO_x continuous emission monitoring system installed at Cornell's Combined Heat and Power Project, including each associated diluent CEM.

1. Not less than 90 days prior to the installation of a CEM system, the owner or operator must submit to the DEC a plan to monitor emissions (the "NO_x Monitoring Plan").
2. The NO_x Monitoring Plan must provide for daily, quarterly and annual quality assurance procedures. These procedures shall meet the procedures in 40 CFR Part 75, Appendices A and B, and be compliant with 6 NYCRR Part 204 and 6 NYCRR Part 243, as applicable.
3. The owner or operator shall comply with the initial monitor certification provisions of 6 NYCRR 243.
4. On a calendar quarter basis, the owner or operator shall submit to the DEC a report of excess emissions. Such report shall include: a list of all periods of



excess emissions, including those periods that occur during startup or shutdown; for each period of excess emission, the cause of the excess emission, the duration, the average magnitude of the excess emission and the action taken to bring the emission into compliance; a summary of the CEM down time, including the cause of the down time and, if applicable, the corrective action taken; and the results of any and all quarterly and annual quality assurance procedures (CGAs, RAAs, and RATAs). The quarterly reports are due no later than 30 days after the end of the quarter.

5. The owner or operator shall maintain a file of all measurements, daily calibrations, quarterly and annual quality assurance activities, and repairs and maintenance made to the system. These records must be maintained for a period of three years from the date of occurrence.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2008.

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

Condition 16: Compliance Demonstration
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement:6NYCRR 202-1

Item 16.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: 1-CHP06

Item 16.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This condition applies to each carbon monoxide and ammonia monitors installed at Cornell's Combined Heat and Power Project.

1. Not less than 90 days prior to the installation of a CEM system, the owner or operator must submit to the DEC a plan to monitor emissions (the "CO and Ammonia Monitoring Plan").

2. The CO and Ammonia Monitoring Plan must provide for daily, quarterly and annual quality assurance procedures. These procedures shall meet the procedures in 40 CFR Part



60, Appendices B and F for both CO and ammonia, or alternative procedures approved by the DEC. The quality assurance procedures shall provide for a daily zero and upscale calibration check; quarterly Cylinder Gas Audits (or equivalent, such as a Relative Accuracy Audit, as approved by the DEC), and an annual Relative Accuracy Test Audit. If a CEM system includes a dual range analyzer, quality assurance procedures must be conducted on both ranges except if a range was not used that quarter, a Cylinder Gas Audit is not required on that range.

3. The CO and Ammonia Monitoring Plan should address routine maintenance and repairs, and include a spare parts list.

4. Not less than 60 days prior to testing, the owner or operator shall submit to the DEC a CEM Performance Test Protocol. Testing may not begin until the protocol is approved by the DEC.

5. Testing shall be conducted no later than 180 days after initial startup of the stationary gas turbines.

6. The owner or operator shall submit to the DEC a CEM certification test report no later than 30 days after completion of the performance tests.

7. Within 90 days of submission of the CEM certification test report, the owner or operator shall submit to the DEC a CEM Quality Assurance Plan.

8. On a calendar quarter basis, the owner or operator shall submit to the DEC a report of excess emissions. Such report shall include: a list of all periods of excess emissions, including those periods that occur during startup or shutdown; for each period of excess emission, the cause of the excess emission, the duration, the average magnitude of the excess emission and the action taken to bring the emission into compliance; a summary of the CEM down time, including the cause of the down time and, if applicable, the corrective action taken; and the results of any and all quarterly and annual quality assurance procedures (CGAs, RAAs, and RATAs). The quarterly reports are due no later than 30 days after the end of the quarter.

9. The owner or operator shall maintain a file of all measurements, daily calibrations, quarterly and annual quality assurance activities, and repairs and maintenance made to the system. These records must be maintained for a period of three years from the date of occurrence.



Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2008.

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

Condition 17: Compliance Demonstration
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement:6NYCRR 204

Item 17.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 17.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility is a NO_x Budget source and operates two NO_x budget units as defined in 6 NYCRR 204. The facility must comply with the provisions of 6 NYCRR Part 204.

1. The owners and operators of each NO_x budget source and each NO_x budget unit at the source shall hold NO_x allowances available for compliance deductions under 6 NYCRR 204-6.5, as of the NO_x allowance transfer deadline, in the unit's compliance account and the source's overdraft account in an amount not less than the total NO_x emissions for the control period from the unit, as determined in accordance with 6 NYCRR 204-8.
2. The owners and operators of a NO_x budget unit that has excess emissions in any control period shall: (1) forfeit the NO_x allowances required for deduction under 6 NYCRR 204-6.5(d)(1); and (2) pay any fine, penalty, or assessment or comply with any other remedy imposed under 6 NYCRR 204-6.5(d)(3).
3. Pursuant to 6 NYCRR 204-1.6(e)(1), unless otherwise provided, the owners and operators of the NO_x budget source and each NO_x budget unit at the source shall keep on site at the source each of the following documents for a period of five years from the date the document is created. This period may be extended for cause, at any time prior to the end of five years, in writing by the department or the administrator.
 - (i) The account certificate of representation for the NO_x authorized account representative for the source and each NO_x 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 204-2.4; provided that the certificate and documents shall be retained on site at the source beyond such five-year period until such documents are superseded because of the submission of a new account certificate of representation changing the NOx authorized account representative.

(ii) All emissions monitoring information, in accordance with 6 NYCRR 204-8; provided that to the extent that 6 NYCRR 204-8 provides for a three year period for recordkeeping, the three year period shall apply.

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

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

4. For each control period in which one or more NOx budget units at a source are subject to the NOx budget emissions limitation, the NOx authorized account representative of the source shall submit to the DEC and the EPA by November 30th of that year, a compliance certification report for each source covering all such units.

5. The NOx authorized account representative shall include in the compliance certification report under Item 4 of this condition the following elements, in a format prescribed by the administrator, concerning each unit at the source and subject to the NOx budget emissions limitation for the control period covered by the report:

(i) identification of each NOx budget unit;

(ii) at the NOx authorized account representative's option, the serial numbers of the NOx allowances that are to be deducted from each unit's compliance account under 6 NYCRR 204-6.5 for the control period;

(iii) at the NOx authorized account representative's option, for units sharing a common stack and having NOx emissions that are not monitored separately or apportioned in accordance with 6 NYCRR 204-8, the percentage of NOx allowances that is to be deducted from each unit's compliance account under 6 NYCRR 204-6.5(e); and

(iv) the compliance certification under subdivision (c) of this section.



6. In the compliance certification report under Item 4 of this condition, the NO_x authorized account representative shall certify, based on reasonable inquiry of those persons with primary responsibility for operating the source and the NO_x budget units at the source in compliance with the NO_x Budget Trading Program, whether each NO_x budget unit for which the compliance certification is submitted was operated during the calendar year covered by the report in compliance with the requirements of the NO_x Budget Trading Program applicable to the unit, including:

(i) whether the unit was operated in compliance with the NO_x budget emissions limitation;

(ii) whether the monitoring plan that governs the unit has been maintained to reflect the actual operation and monitoring of the unit, and contains all information necessary to attribute NO_x emissions to the unit, in accordance with 6 NYCRR 204-8;

(iii) whether all the NO_x emissions from the unit, or a group of units (including the unit) using a common stack, 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 6 NYCRR 204-8. 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 has been made;

(iv) whether the facts that form the basis for certification under 6 NYCRR 204-8 of each monitor at the unit or a group of units (including the unit) using a common stack, or for using an excepted monitoring method or alternative monitoring method approved under 6 NYCRR 204-8, if any, has changed; and

(v) if a change is required to be reported under paragraph (4) of this subdivision, 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.

7. The NO_x allowances are available to be deducted for compliance with a unit's NO_x budget emissions limitation for a control period in a given year only if the NO_x allowances:(1) were allocated for a control period in a prior year or the same year; and(2) are held in the unit's



compliance account, or the overdraft account of the source where the unit is located, as of the NO_x allowance transfer deadline for that control period or are transferred into the compliance account or overdraft account by a NO_x allowance transfer correctly submitted for recording under section 6 NYCRR 204-7.1 by the NO_x allowance transfer deadline for that control period.

8. The owners and operators, and to the extent applicable, the NO_x authorized account representative of a NO_x budget unit, shall comply with the monitoring and reporting requirements as provided in this Subpart and in subpart H of 40 CFR part 75. For purposes of complying with such requirements, the definitions in 6 NYCRR 204-1.2 and in 40 CFR 72.2 shall apply, and the terms "affected unit," "designated representative," and "continuous emission monitoring system" (or "CEMS") in 40 CFR part 75 shall be replaced by the terms "NO_x budget unit," "NO_x authorized account representative," and "continuous emission monitoring system" (or "CEMS"), respectively, as defined in 6 NYCRR 204-1.2.

9. Whenever any monitoring system fails to meet the quality assurance requirements of appendix B of 40 CFR part 75, data shall be substituted using the applicable procedures in subpart D, appendix D, or appendix E of 40 CFR part 75.

10. The NO_x authorized account representative shall submit quarterly reports, as follows:

(i) The NO_x authorized account representative shall submit a quarterly report for each calendar quarter;

(ii) The NO_x authorized account representative shall submit each quarterly report to the DEC and the EPA 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.

(iii) Quarterly reports shall include all of the data and information required in subpart H of 40 CFR part 75 for each NO_x budget unit (or group of units using a common stack) as well as information required in subpart G of 40 CFR part 75.

11. The NO_x authorized account representative shall submit to the DEC and the EPA 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 6 NYCRR 204 and 40 CFR Part 75, including the quality assurance procedures and specifications;

(ii) for a unit with add-on NO_x emission controls and for all hours where data are substituted in accordance with 40 CFR 75.34(a)(1), the add-on emission controls were operating within the range of parameters listed in the monitoring plan and the substitute values do not systematically underestimate NO_x emissions; and

(iii) for a unit that is reporting on a control period basis under this subdivision the NO_x emission rate and NO_x concentration values substituted for missing data under subpart D of 40 CFR Part 75 are calculated using only values from a control period and do not systematically underestimate NO_x emissions.

12. On a semi-annual basis, the owner or operator shall submit to the DEC a report stating whether emissions were monitored as required pursuant to this condition.

13. On an annual basis, the owner or operator shall submit to the DEC a compliance certification. Such certification shall state whether the owner or operator has complied with all requirements of this condition.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2009.

Subsequent reports are due every 12 calendar month(s).

**Condition 18: Standard requirements
Effective between the dates of 06/03/2008 and 06/03/2013**

Applicable Federal Requirement: 6 NYCRR 243-1.6

Item 18.1:

§243-1.6 Standard requirements

1. Pursuant to 6 NYCRR 243-1.6(c)(1), as of the allowance transfer deadline for a control period, the owners and operators shall hold, in the CAIR NO_x Ozone Season source's compliance account, CAIR NO_x Ozone Season allowances available for compliance deductions for the control period under section 243-6.5(a) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NO_x Ozone Season units at the source, as determined in accordance with Subpart 243-8.



2. Pursuant to 6 NYCRR 243-1.6(c)(3) and 243-6.5, a CAIR NO_x Ozone Season allowance shall not be deducted, for compliance with the requirements under paragraph (c)(1) of this section, for a control period in a calendar year before the year for which the CAIR NO_x Ozone Season allowance was allocated, and only if the CAIR NO_x Ozone Season allowances are held in the compliance account as of the allowance transfer deadline for the control period or are transferred into the compliance account by a CAIR NO_x Ozone Season allowance transfer correctly submitted for recordation under 6 NYCRR 243-7.1 and 6 NYCRR 243-7.2 by the allowance transfer deadline for the control period.

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

4. Pursuant to 6 NYCRR 243-1.6(d), if a CAIR NO_x Ozone Season source emits nitrogen oxides during any control period in excess of the CAIR NO_x Ozone Season emissions limitation, then:
(i) the owners and operators of the source and each CAIR NO_x Ozone Season unit at the source shall surrender the CAIR NO_x Ozone Season allowances required for deduction under 6 NYCRR 243-6.5(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Act or applicable State law; and

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

Condition 19: NO_x CAIR record keeping
Effective between the dates of 06/03/2008 and 06/03/2013

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

Item 19.1:

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

(i) The certificate of representation for the CAIR designated representative for the source and each CAIR NO_x Ozone Season unit at the source, and if applicable, for the alternate CAIR designated representative, and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such five-year period until such documents are superseded because of the submission of a new certificate of representation under 6 NYCRR 243-2.4 changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with 6 NYCRR 243-8, provided that to the extent that 6 NYCRR 243-8 provides for a three-year period for record keeping, the three-year period shall apply.

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



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

Condition 20: CAIR NO_x certification statement
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement:6NYCRR 243-2.1

Item 20.1:

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

Condition 21: General CEM requirements
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement:6NYCRR 243-8.1

Item 21.1:

1. The owners and operators, and to the extent applicable, the CAIR designated representative, of a CAIR NO_x Ozone Season unit, shall comply with the monitoring, record keeping, and reporting requirements as provided in 6 NYCRR 243 and in Subpart H of 40 CFR Part 75. For purposes of complying with such requirements, the definitions in 6 NYCRR 243-1.2 and in 40 CFR 72.2 shall apply, and the terms "affected unit," "designated representative," and "continuous emission monitoring system" (or "CEMS") in 40 CFR Part 75 shall be deemed to refer to the terms "CAIR NO_x Ozone Season unit," "CAIR designated representative," and "continuous emission monitoring system" (or "CEMS") respectively, as defined in 6 NYCRR 243-1.2. The owner or operator of a unit that is not a CAIR NO_x Ozone Season unit but that is monitored under 40 CFR 75.72(b)(2)(ii) shall comply with the same monitoring, record keeping, and reporting requirements as a CAIR NO_x Ozone Season unit.

2. The owner or operator of each CAIR NO_x Ozone Season unit shall:

(I) install all monitoring systems for monitoring NO_x mass emissions and individual unit heat input (including all systems required to monitor NO_x emission rate, NO_x concentration, stack gas moisture content, stack gas flow rate, CO₂ or O₂ concentration, and fuel flow rate, as applicable, in accordance with 40 CFR 75.71 and 40 CFR 75.72);

(ii) successfully complete all certification tests required under 6 NYCRR 243-8.2 and meet all other requirements of 6 NYCRR 243 and 40 CFR Part 75 applicable to the monitoring systems under paragraph (a)(1) of this section; and



(iii) record, report, and quality-assure the data from the monitoring systems under 6 NYCRR 243-8(a)(1) of this section.

3. No owner or operator of a CAIR NO_x Ozone Season unit shall use any alternative monitoring system, alternative reference method, or any other alternative to any requirement of this Subpart without having obtained prior written approval in accordance with 6 NYCRR 243-8.6.

4. No owner or operator of a CAIR NO_x Ozone Season unit shall operate the unit so as to discharge, or allow to be discharged, NO_x emissions to the atmosphere without accounting for all such emissions in accordance with the applicable provisions of 6 NYCRR 243 and 40 CFR Part 75.

5. No owner or operator of a CAIR NO_x Ozone Season unit shall disrupt the continuous emission monitoring system, any portion thereof, or any other approved emission monitoring method, and thereby avoid monitoring and recording NO_x mass emissions discharged into the atmosphere or heat input, except for periods of re certification or periods when calibration, quality assurance testing, or maintenance is performed in accordance with the applicable provisions of 6 NYCRR 243 and 40 CFR Part 75.

Condition 22: Quarterly CAIR NO_x reports
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement: 6 NYCRR 243-8.5

Item 22.1:

1. The owners and operators, and to the extent applicable, the CAIR designated representative, of a CAIR NO_x Ozone Season unit, shall comply with the monitoring, record keeping, and reporting requirements as provided in 6 NYCRR 243 and in Subpart H of 40 CFR Part 75. For purposes of complying with such requirements, the definitions in 6 NYCRR 243-1.2 and in 40 CFR 72.2 shall apply, and the terms "affected unit," "designated representative," and "continuous emission monitoring system" (or "CEMS") in 40 CFR Part 75 shall be deemed to refer to the terms "CAIR NO_x Ozone Season unit," "CAIR designated representative," and "continuous emission monitoring system" (or "CEMS") respectively, as defined in 6 NYCRR 243-1.2. The owner or operator of a unit that is not a CAIR NO_x Ozone Season unit but that is monitored under 40 CFR 75.72(b)(2)(ii) shall comply with the same monitoring, record keeping, and reporting requirements as a CAIR NO_x Ozone Season unit.

2. The owner or operator of each CAIR NO_x Ozone Season unit shall:

(I) install all monitoring systems for monitoring NO_x mass emissions and individual unit heat input (including all systems required to monitor NO_x emission rate, NO_x concentration, stack gas moisture content, stack gas flow rate, CO₂ or O₂ concentration, and fuel flow rate, as applicable, in accordance with 40 CFR 75.71 and 40 CFR 75.72);

(ii) successfully complete all certification tests required under 6 NYCRR 243-8.2 and meet all other requirements of 6 NYCRR 243 and 40 CFR Part 75 applicable to the monitoring systems under paragraph (a)(1) of this section; and

(iii) record, report, and quality-assure the data from the monitoring systems under 6 NYCRR 243-8(a)(1) of this section.



3. No owner or operator of a CAIR NO_x Ozone Season unit shall use any alternative monitoring system, alternative reference method, or any other alternative to any requirement of this Subpart without having obtained prior written approval in accordance with 6 NYCRR 243-8.6.
4. No owner or operator of a CAIR NO_x Ozone Season unit shall operate the unit so as to discharge, or allow to be discharged, NO_x emissions to the atmosphere without accounting for all such emissions in accordance with the applicable provisions of 6 NYCRR 243 and 40 CFR Part 75.
5. No owner or operator of a CAIR NO_x Ozone Season unit shall disrupt the continuous emission monitoring system, any portion thereof, or any other approved emission monitoring method, and thereby avoid monitoring and recording NO_x mass emissions discharged into the atmosphere or heat input, except for periods of re certification or periods when calibration, quality assurance testing, or maintenance is performed in accordance with the applicable provisions of 6 NYCRR 243 and 40 CFR Part 75.

Condition 23: Compliance Demonstration
Effective between the dates of 06/03/2008 and 06/03/2013
Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 23.1:
The Compliance Demonstration activity will be performed for the Facility.

Item 23.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

Potential emissions of fine particulate matter and sulfuric acid mist are projected to exceed the thresholds in the EPA's Prevention of Significant Deterioration (PSD) regulations.

Cornell must comply with all of the conditions of the Prevention of Significant Deterioration Permit issued by EPA, dated June 3, 2008.

On an annual basis, the owner or operator shall submit to the DEC a certification of compliance that identifies all conditions in the PSD permit and state whether Cornell has complied with each such condition.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2009.



Subsequent reports are due every 12 calendar month(s).

Condition 24: Compliance Demonstration
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement: 40CFR 63.6100, Subpart YYYYY

Item 24.1:

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

Emission Unit: 1-CHP06
Process: GDO

Emission Unit: 1-CHP06
Process: GTO

Item 24.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

Pursuant to 40 CFR 63.6100 and 63.6125(a), the four hour rolling average inlet temperature to each oxidation catalyst shall be maintained within the range suggested by the catalyst manufacturer when the turbine is firing oil. That range is between 600 F and 1100 F.

Pursuant to 40 CFR 63.6125(a), the owner or operator of the stationary gas turbine must continuously monitor the temperature to the inlet of the oxidation catalyst.

Pursuant to this condition, the owner or operator of the stationary gas turbine must record the average temperature to the inlet of the oxidation catalyst at least once per hour.

This requirement applies at all times except during periods of startup, shutdown and malfunction.

Each stationary combustion turbine, oxidation catalyst and monitoring device must be operated in a manner consistent with good air pollution control practices for minimizing emissions at all times including during periods of startup, shutdown and malfunction.

Parameter Monitored: TEMPERATURE

Lower Permit Limit: 600 degrees Fahrenheit

Upper Permit Limit: 1100 degrees Fahrenheit

Monitoring Frequency: CONTINUOUS

Averaging Method: 4-HOUR ROLLING AVERAGE



owner or operator operated in compliance with this condition. Such report shall state whether the facility conducted an emissions test and if so, the results of such testing.

Upper Permit Limit: 91 parts per billion by volume (dry, corrected to 15% O₂)

Reference Test Method: EPA Method 320

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2009.

Subsequent reports are due every 12 calendar month(s).

Condition 26: Compliance Demonstration
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement:40CFR 63.6125(d), Subpart YYYYY

Item 26.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 26.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Facilities operating a lean premix gas-fired stationary combustion turbine or a diffusion flame gas-fired stationary combustion turbine as defined by 40 CFR 63 Subpart YYYYY that use any quantity of distillate oil to fire any new or existing stationary combustion turbine which is located at the same facility, must monitor and record the distillate oil usage daily for all new and existing stationary combustion turbines located at the facility with a non-resettable hour meter to measure the number of hours that distillate oil is fired.

Monitoring Frequency: DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2008.

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

Condition 27: Notifications
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement:40CFR 63.6145, Subpart YYYYY



Item 27.1:

This Condition applies to:

Emission Unit: 1CHP06

Item 27.2:

The owner or operator must submit all notifications in 40 CFR 63.7(b) and (c), 63.8(f)(4), 63.9(b) and 63.9(h) by the dates specified.

Cornell must submit to the DEC and the EPA an initial notification not later than 120 calendar days after first starting up the turbine.

Cornell must submit to the DEC and the EPA a notification of intent to conduct an initial performance test at least 60 calendar days before the initial performance test is scheduled to begin.

Cornell must submit to the DEC and the EPA a Notification of Compliance Status according to 40 CFR 63.9(h)(2)(ii). For each performance test required to demonstrate compliance with the emission limit for formaldehyde, you must submit the Notification of Compliance Status, including the performance test results, before the close of business on the 60th calendar day following the completion of the performance test.

Condition 28: Reports

Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement:40CFR 63.6150, Subpart YYYY

Item 28.1:

This Condition applies to:

Emission Unit: 1CHP06

Process: GDO

Emission Unit: 1CHP06

Process: GTO

Item 28.2:

Cornell must submit to the DEC and the EPA semi-annual compliance reports containing the following information:

- (1) the company name and address;
- (2) a statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report;
- (3) the date of report and beginning and ending dates of the reporting period;
- (4) for each deviation from an existing emission limitation, the compliance report must contain the information in paragraphs (i) through (iii):
 - (i) the total operating time of each stationary combustion turbine during the reporting period;



(ii) information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken;

(iii) information on the number, duration, and cause of deviations (including unknown cause, if applicable, other than downtime associated with zero and span and other daily calibration checks); and

(5) the number of hours ultra low sulfur fuel was fired by each stationary combustion turbine during the reporting period, the operating limits and any deviations from these limits, and any problems or errors suspected with the meters.

The reports shall be submitted with the semi-annual reports required elsewhere in this permit.

Condition 29: Record keeping
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement: 40CFR 63.6155, Subpart
YYYY

Item 29.1:

This Condition applies to:

Emission Unit: 1CHP06
Process: GDO

Emission Unit: 1CHP06
Process: GTO

Item 29.2:

Cornell must keep the following records in such a manner that they can be readily accessed and are suitable for inspection according to 40 CFR 63.10(b)(1). The records must be kept for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report or record. The most recent two years must be retained on-site or the records must be accessible on-site. The remaining 5 years may be retained off-site.

(1) A copy of each notification and report that was submitted to comply with 40 CFR Part 63, Subpart YYYY, including all documentation supporting any initial notification or notification of compliance status that you submitted, according to the requirements in 40 CFR 63.10(b)(2)(xix).

(2) Records of performance tests and performance evaluations as required in 40 CFR 63.10(b)(2)(viii).

(3) Records of the occurrence and duration of each startup, shutdown, or malfunction as required in 40 CFR 63.10(b)(2)(i).

(4) records of the occurrence and duration of each malfunction of the air pollution control equipment, if applicable, as required in 40 CFR 63.10(b)(2)(ii).



(5) Records of all maintenance on the air pollution control equipment as required in 40 CFR 63.10(b)(iii).

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

Condition 30: Compliance Demonstration
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement:6NYCRR 201-1.4(a)

Item 30.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-CHP06

Item 30.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This condition defines startup for determining compliance with NO_x, CO and ammonia emission limits.

(a) The owner or operator shall develop and maintain procedures for the cold start of the gas turbine(s) and for the shutdown of the gas turbine(s). Such procedures shall define temperature permissives (and any other operating parameters, if needed) for ammonia injection. Such procedures must be submitted to the DEC within 60 days after startup of the engines.

(b) Startup and shutdown shall be accomplished in accordance with the procedures identified in Item (a). The date and time when permissives are achieved, as well as deviations from the procedures developed in accordance with Item (a), shall be noted in a written log (or otherwise documented, such as in a computer system).

(c) The time required for shutdown shall not exceed one-half hour, commencing with the stopping of ammonia flow.

(d) The time required for startup shall not exceed 3



hours, commencing with the first firing of fuel and ending with the conditions for achieving ammonia injection.

(e) Ammonia flow shall be initiated immediately after injection permissives have been achieved.

(f) If ammonia permissives are achieved within the first 30 minutes of a clock hour (e.g., between 0600 and 0630 for clock hour 6), compliance with all limits is required commencing with the next full clock hour after permissives have been achieved (e.g., starting with clock hour 7). If ammonia permissives are achieved during the last 30 minutes of a clock hour (e.g., after 0630 but before 0700), compliance with all limits is required commencing with the second full clock hour after permissives have been achieved (e.g., starting with clock hour 8).

(g) Emissions shall be monitored and recorded whenever fuel is fired. Periods of excess emissions due to startup and shutdown must be identified in the quarterly excess emissions report. For those periods of excess emissions due to startup or shutdown where procedures deviated from the procedures developed in accordance with Item (a) of this condition, the owner or operator shall describe how the actual startup or shutdown procedures deviated from the written procedures.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2008.

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

Condition 31: Compliance Demonstration
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement: 40CFR 60, NSPS Subpart

KKKK

Item 31.1:

The Compliance Demonstration activity will be performed for:



Emission Unit: 1-CHP06

Item 31.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The stationary combustion turbines are subject to 40 CFR Part 60, Subpart KKKK, Standards of Performance for Stationary Combustion Turbines. This federal standard imposes emissions limits that are much less stringent than the emissions limits imposed elsewhere in this permit. For example, the NO_x emission limits when firing gas and oil are 25 ppm and 74 ppm, respectively (compared to 2.5 ppm and 9.0 ppm). The fuel sulfur limit in the Standards of Performance of 0.060 pounds sulfur per million Btu heat input is also much less stringent than the combusting ultra low sulfur diesel.

Pursuant to 40 CFR 60.4333(a), Cornell must operate and maintain each stationary combustion turbine, air pollution control equipment and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown and malfunction.

The Standards of Performance specifies the procedures to be used to determine compliance. Pursuant to 40 CFR 60.3430(b)(1) and 60.4345, Cornell will use continuous emissions monitoring meeting the requirements of 40 CFR Part 75 to demonstrate compliance with the NO_x limit. Cornell must implement the quality assurance program and plan description in Section 1 of Appendix B to 40 CFR Part 75.

Cornell will demonstrate compliance with the fuel sulfur limit by demonstrating that the fuel quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract meet the specifications in 40 CFR 60.4365(a), which are 0.05 weight percent sulfur for fuel oil and 20 grains total sulfur per 100 standard cubic feet for natural gas.



The Standards of Performance also specify recordkeeping and reporting requirements. The quarterly reports required elsewhere satisfy the requirements of 40 CFR 60.4375(a).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2009.

Subsequent reports are due every 12 calendar month(s).

Condition 32: Compliance Demonstration

Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement: 40CFR 63.52(b)(1), Subpart

B

Item 32.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-CHP06

Item 32.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(The installation of the two duct burners associated with the two gas turbines does not invoke Section 112(g) of the Clean Air Act. However, when one or more sources in a category or subcategory subject to the requirements of 40 CFR Part 63, Subpart B (implementing Section 112(j) of the Clean Air Act) are installed at a major source, or result in the source becoming a major source due to the installation, and the installation does not invoke section 112(g) requirements, the owner or operator must submit an application meeting the requirements of §63.53(a) within 30 days of startup of the source. This application shall be reviewed using the procedures established in 40 CFR 63.52(e). Existing source MACT requirements (including relevant compliance deadlines), as specified in a title V permit issued pursuant to the requirements of this subpart, shall apply to such sources.)



1. The owner or operator shall, within 30 days of startup, submit to the DEC and the EPA an application meeting the requirements of 40 CFR 63.53(a).
2. The owners or operators shall, within 90 days of startup, submit to the DEC and the EPA an application meeting the requirements of 40 CFR 63.53(b).
3. If the DEC disapproves, or finds the application submitted pursuant to 40 CFR 63.53(b) incomplete, the owner or operator must revise and resubmit the application to meet the objections of the permitting authority. The DEC must specify a reasonable period in which the owner or operator is required to remedy the deficiencies in the disapproved or incomplete application. This period may not exceed 6 months from the date the owner or operator is first notified that the application has been disapproved or is incomplete.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 33: Capping Monitoring Condition
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement:6NYCRR 201-7.1

Item 33.1:

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:

6NYCRR 227-2
6NYCRR 231-2

Item 33.2:

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



Item 33.3:

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 33.4:

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 33.5:

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 33.6:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-CHP07

Regulated Contaminant(s):

CAS No: 0NY210-00-0

OXIDES OF NITROGEN

Item 33.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

1. The combined operating hours of DGEN 2 and DGEN 3 are limited, in aggregate, to 800 hours per 12 month rolling period.
2. DGEN2 shall not operate more than 500 hours per 12 month rolling period.



3. DGEN3 shall not operate more than 500 hours per 12 month rolling period.

4. The owner or operator shall maintain records showing the number of hours each emergency diesel generated operated in each calendar month. Records demonstrating compliance with this condition shall be maintained at the site and submitted to the DEC upon request.

5. This condition does not waive any other permit requirement that restricts operation of the emergency diesel engines.

6. On an annual basis, the owner or operator shall include in his annual certification a report of the annual operating hours for each engine during the past year. Additionally, if operation of the engines exceeds the limits in this condition, the owner or operator shall submit to the DEC a notification of such excess operation no later than 30 days after such occurrence.

Work Practice Type: HOURS PER YEAR OPERATION

Parameter Monitored: OPERATING HOURS

Upper Permit Limit: 500 hours

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 12-month rolling average

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2009.

Subsequent reports are due every 12 calendar month(s).

Condition 34: Compliance Demonstration

Effective between the dates of 06/03/2008 and 06/03/2013

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

Item 34.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-CHP07

Item 34.2:

Compliance Demonstration shall include the following monitoring:



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

Monitoring Description:

No person shall operate a stationary combustion installation which exhibits greater than 20 percent opacity (six minute average), except for one-six-minute period per hour of not more than 27 percent opacity.

The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

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

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

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

Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Reference Test Method: Method 9
Monitoring Frequency: DAILY



Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2009.

Subsequent reports are due every 12 calendar month(s).

Condition 35: Compliance Demonstration

Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement: 40CFR 60.4205(b), NSPS

Subpart IIII

Item 35.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-CHP07

Item 35.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a 2007 model year or later emergency stationary compression ignition (CI) internal combustion engine with a maximum engine power less than or equal to 2,237 kW (3,000 HP) that is not a fire pump engine and has a displacement of less than 10 liters/cylinder will require certification to the following emission standards:

1. For engines with a maximum engine power less than 37 kW (50 HP):

- 2007 model year engines - emission standards specified in 40 CFR 89.112 and 40CFR 89.113, as applicable,
- 2008 model year and later - emission standards specified in 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, and 40 CFR 1039.115, as applicable.

2. For engines with a maximum engine power greater than or equal to 37 kW (50 HP):

- 2007 model year and later - emission standards specified in 40 CFR 89.112 and 40CFR 89.113, as applicable, for all pollutants, for the same model year and maximum engine power.



Compliance with this requirement will be established by purchasing an engine certified to the applicable emission standard referenced above and installed and configured according to the manufacturer's specifications. Records documenting these actions must be kept on-site.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2008.

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

Condition 36: Compliance Demonstration
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement:40CFR 60.4206, NSPS

Subpart IIII

Item 36.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-CHP07

Item 36.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Pursuant to 40 CFR 60.4206 and 60.4211(a), Cornell must operate and maintain the emergency diesel generators according to the manufacturer's written instructions, or procedures developed by the owner or operator that are approved by the engine manufacturer over the life of the engine. Cornell may only change those settings that are permitted by the manufacturer. Cornell must also meet the requirements of 40 CFR Parts 89, 94 and/or 1068 as applicable.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.



The initial report is due 1/30/2009.

Subsequent reports are due every 12 calendar month(s).

Condition 37: Special condition
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement:40CFR 60.4207, NSPS

Subpart IIII

Item 37.1:

This Condition applies to Emission Unit: 1-CHP07

Item 37.2: 1. Prior to October 1, 2010, Cornell must use diesel fuel fired in the emergency diesel generators that meets the following requirements:

(1) Sulfur content. 500 parts per million (ppm) maximum.

(2) Cetane index or aromatic content, as follows:

(i) A minimum cetane index of 40; or

(ii) A maximum aromatic content of 35 volume percent.

2. On and after October 1, 2010, Cornell must use diesel fuel fired in the emergency diesel generators that meets the following requirements:

(1) Sulfur content must not exceed 15 ppm maximum.

(2) Cetane index or aromatic content, as follows:

(i) A minimum cetane index of 40; or

(ii) A maximum aromatic content of 35 volume percent.

Condition 38: Compliance Demonstration
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement:40CFR 60.4209(a), NSPS Subpart IIII

Item 38.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-CHP07

Item 38.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES



Monitoring Description:

The owner or operator of an emergency stationary compression ignition IC engine must install and maintain a non-resettable hour meter prior to startup to monitor engine usage

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2008.

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

Condition 39: Compliance Demonstration
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable Federal Requirement:40CFR 60.4211(e), NSPS Subpart III

Item 39.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-CHP07

Item 39.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

Emergency stationary ICE may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. There is no time limit on the use of emergency stationary ICE in emergency situations. Anyone may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. For owners and operators of emergency engines meeting standards under §60.4205 but not §60.4204, any operation other than emergency operation, and maintenance and testing as permitted in this section, is prohibited.

Parameter Monitored: ENGINE OPERATION

Upper Permit Limit: 100 hours per year

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: ANNUAL TOTAL



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: Public Access to Recordkeeping for Facilities With State Facility Permits - 6NYCRR Part 201-1.10(a)

Where emission source owners and/or operators keep records pursuant to compliance with the operational flexibility requirements of 6 NYCRR Subpart 201-5.4(b)(1) , and/or the emission capping requirements of 6 NYCRR Subparts 201-7.2(d), 201-7.3(f), 201-7.3(g), 201-7.3(h)(5), 201-7.3(i) and 201-7.3(j), the Department will make such records available to the public upon request in accordance with 6 NYCRR Part 616 - Public Access to Records. Emission source owners and/or operators must submit the records required to comply with the request within sixty working days of written notification by the Department of receipt of the request.

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

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

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

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state only enforceable.



Condition 41: Contaminant List
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable State Requirement: ECL 19-0301

Item 41.1:

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

CAS No: 007664-41-7
Name: AMMONIA

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

CAS No: 000050-00-0
Name: FORMALDEHYDE

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

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

CAS No: 0NY998-00-0
Name: VOC

Condition 42: Unavoidable noncompliance and violations
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable State Requirement: 6NYCRR 201-1.4

Item 42.1:

At the discretion of the commissioner a violation of any applicable emission standard for necessary scheduled equipment maintenance, start-up/shutdown conditions and malfunctions or upsets may be excused if such violations are unavoidable. The following actions and recordkeeping and reporting requirements must be adhered to in such circumstances.

(a) The facility owner and/or operator shall compile and maintain records of all equipment maintenance or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the commissioner's representative when requested to do so in writing or when so required by a condition of a permit issued for the corresponding air contamination source except where conditions elsewhere in this permit which contain more stringent reporting and notification provisions for an applicable requirement, in which case they supercede those stated here. Such reports shall describe why the violation was unavoidable and shall include the time, frequency and duration of the maintenance and/or start-up/shutdown activities and the identification of air contaminants, and the estimated emission rates. If a facility owner and/or operator is subject to continuous stack monitoring and quarterly reporting requirements, he need not submit reports for equipment maintenance or start-up/shutdown for the facility to the commissioner's representative.



(b) In the event that emissions of air contaminants in excess of any emission standard in 6 NYCRR Chapter III Subchapter A occur due to a malfunction, the facility owner and/or operator shall report such malfunction by telephone to the commissioner's representative as soon as possible during normal working hours, but in any event not later than two working days after becoming aware that the malfunction occurred. Within 30 days thereafter, when requested in writing by the commissioner's representative, the facility owner and/or operator shall submit a written report to the commissioner's representative describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates. These reporting requirements are superseded by conditions elsewhere in this permit which contain reporting and notification provisions for applicable requirements more stringent than those above.

(c) The Department may also require the owner and/or operator to include in reports described under (a) and (b) above an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions depending on the deviation of the malfunction and the air contaminants emitted.

(d) In the event of maintenance, start-up/shutdown or malfunction conditions which result in emissions exceeding any applicable emission standard, the facility owner and/or operator shall take appropriate action to prevent emissions which will result in contravention of any applicable ambient air quality standard. Reasonably available control technology, as determined by the commissioner, shall be applied during any maintenance, start-up/shutdown or malfunction condition subject to this paragraph.

(e) In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets.

Condition 43: Emission Unit Definition
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable State Requirement: 6NYCRR 201-5

Item 43.1:

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

Emission Unit: 1-CHP06

Emission Unit Description:

This emission unit consists of two (2) 15 MW stationary combustion turbine/generator sets with gas-fired heat recovery steam generators.

Building(s): 5510B

Item 43.2:

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

Emission Unit: 1-CHP07

Emission Unit Description:

This Emission Unit consists of two (2) 1000 kW diesel engine/generator sets. The generators are used for emergency power generation, only.

Building(s): 5510B



Condition 44: Air pollution prohibited
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable State Requirement:6NYCRR 211.2

Item 44.1:

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 45: Compliance Demonstration
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable State Requirement:6NYCRR 617.11(d)

Item 45.1:

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

Emission Unit: 1-CHP06

Regulated Contaminant(s):

CAS No: 007664-41-7 AMMONIA

Item 45.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This emission limit applies to each gas turbine, with or without operation of the duct burner.

Emissions of ammonia from each gas turbine: shall not exceed 5.0 ppm by volume on a 3 hour rolling average, measured on a dry basis and corrected to 15% oxygen. This emission limit shall not apply during periods of startup or shutdown.

Compliance with this limit shall be determined using ammonia continuous emission monitors. The ammonia CEMs shall be operated in accordance with an operations and maintenance manual, as approved by the DEC.

On a calendar quarter basis, the owner or operator shall submit to the DEC, in a format acceptable to the DEC, a report of excess emissions and continuous emissions monitoring down time. The report shall identify each period of excess emissions and, for each such period, state the average value of the emission; the cause of the



excess emission; and the corrective action taken.

Manufacturer Name/Model Number: Continuous Emission Monitor

Parameter Monitored: AMMONIA

Upper Permit Limit: 5.0 parts per million by volume
(dry, corrected to 15% O2)

Reference Test Method: CEMs

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR ROLLING AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2008.

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

**** Emission Unit Level ****

Condition 46: Emission Point Definition By Emission Unit
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable State Requirement:6NYCRR 201-5

Item 46.1:

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

Emission Unit: 1-CHP06

Emission Point: 00007

Height (ft.): 180 Diameter (in.): 72
NYTMN (km.): 4700.1 NYTME (km.): 378.3 Building: 5510B

Emission Point: 00008

Height (ft.): 180 Diameter (in.): 72
NYTMN (km.): 4700.1 NYTME (km.): 378.3 Building: 5510B

Item 46.2:

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

Emission Unit: 1-CHP07

Emission Point: 00009

Height (ft.): 91 Diameter (in.): 7
NYTMN (km.): 4700.1 NYTME (km.): 378.3 Building: 5510B

Emission Point: 00010

Height (ft.): 91 Diameter (in.): 7
NYTMN (km.): 4700.1 NYTME (km.): 378.3 Building: 5510B

Condition 47: Process Definition By Emission Unit
Effective between the dates of 06/03/2008 and 06/03/2013

Applicable State Requirement:6NYCRR 201-5



Item 47.1:

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

Emission Unit: 1-CHP06

Process: GDG

Source Classification Code: 2-03-002-03

Process Description:

Process GDG consists of natural gas combustion in gas turbine generator 1 and/or 2, with supplemental duct burner firing on natural gas.

Emission Source/Control: DBNR1 - Combustion

Design Capacity: 115 million BTUs per hour

Emission Source/Control: DBNR2 - Combustion

Design Capacity: 115 million BTUs per hour

Emission Source/Control: GTG01 - Combustion

Design Capacity: 155 million BTUs per hour

Emission Source/Control: GTG02 - Combustion

Design Capacity: 155 million BTUs per hour

Emission Source/Control: OXCT1 - Control

Control Type: CATALYTIC OXIDATION

Emission Source/Control: OXCT2 - Control

Control Type: CATALYTIC OXIDATION

Emission Source/Control: SCR01 - Control

Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: SCR02 - Control

Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Item 47.2:

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

Emission Unit: 1-CHP06

Process: GDO

Source Classification Code: 2-03-001-02

Process Description:

Process GDO consists of distillate fuel oil (ultra low sulfur diesel) combustion in gas turbine generator a and/or 2, with supplemental duct burner firing on natural gas.

Emission Source/Control: DBNR1 - Combustion

Design Capacity: 115 million BTUs per hour

Emission Source/Control: DBNR2 - Combustion

Design Capacity: 115 million BTUs per hour

Emission Source/Control: GTG01 - Combustion



Design Capacity: 155 million BTUs per hour

Emission Source/Control: GTG02 - Combustion

Design Capacity: 155 million BTUs per hour

Emission Source/Control: OXCT1 - Control

Control Type: CATALYTIC OXIDATION

Emission Source/Control: OXCT2 - Control

Control Type: CATALYTIC OXIDATION

Emission Source/Control: SCR01 - Control

Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: SCR02 - Control

Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Item 47.3:

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

Emission Unit: 1-CHP06

Process: GTG

Source Classification Code: 2-03-002-03

Process Description:

Process GTG consists of natural gas combustion in gas turbine generator 1 and/or 2 without supplemental duct burner firing.

Emission Source/Control: GTG01 - Combustion

Design Capacity: 155 million BTUs per hour

Emission Source/Control: GTG02 - Combustion

Design Capacity: 155 million BTUs per hour

Emission Source/Control: OXCT1 - Control

Control Type: CATALYTIC OXIDATION

Emission Source/Control: OXCT2 - Control

Control Type: CATALYTIC OXIDATION

Emission Source/Control: SCR01 - Control

Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: SCR02 - Control

Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Item 47.4:

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

Emission Unit: 1-CHP06

Process: GTO

Source Classification Code: 2-03-001-02

Process Description:

Process GTO consists of distillate fuel oil combustion (ultra low sulfur diesel) in gas turbine generator 1



and/or 2, without supplemental duct burner firing.

Emission Source/Control: GTG01 - Combustion
Design Capacity: 155 million BTUs per hour

Emission Source/Control: GTG02 - Combustion
Design Capacity: 155 million BTUs per hour

Emission Source/Control: OXCT1 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: OXCT2 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: SCR01 - Control
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: SCR02 - Control
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Item 47.5:

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

Emission Unit: 1-CHP07

Process: G2E

Source Classification Code: 2-03-001-01

Process Description:

Process G2E consists of two (2) 1000 kW diesel generators used to generate power during emergency situations.

Emission Source/Control: DGEN2 - Combustion
Design Capacity: 1,000 kilowatts

Emission Source/Control: DGEN3 - Combustion
Design Capacity: 1,000 kilowatts

New York State Department of Environmental Conservation

Permit ID: 7-5007-00030/00048

Facility DEC ID: 7500700030

