



**PERMIT**  
**Under the Environmental Conservation Law (ECL)**

**IDENTIFICATION INFORMATION**

Permit Type: Air State Facility  
Permit ID: 7-2532-00002/00003  
Mod 0 Effective Date: 08/01/2005 Expiration Date: No expiration date.  
Mod 1 Effective Date: Expiration Date:

Permit Issued To: COLGATE UNIVERSITY  
13 OAK DR  
HAMILTON, NY 13346

Facility: COLGATE UNIVERSITY  
94 HAMILTON ST|(CO RTE 70)  
HAMILTON, NY 13346

Description:  
This permit modification authorizes the construction and operation of two new boilers (Boilers 5 and 6), contingent with the removal of three older boilers (Boilers 1, 2 and 3).

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: JOSEPH M DLUGOLENSKI  
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
  - Applications for Permit Renewals and Modifications
  - Permit modifications, suspensions or revocations by the Department
  - Permit Modifications, Suspensions and Revocations by the Department

**Facility Level**

- Submission of Applications for Permit Modification or Renewal
  - REGION 7 HEADQUARTERS
- Submission of application for permit modification or renewal-REGION 7 HEADQUARTERS



**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 1-1: Applications for permit renewals, modifications and transfers**

**Applicable State Requirement: 6 NYCRR 621.11**

**Item 1-1.1:**

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 1-1.2:**

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 1-1.3:**

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.

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**Applicable State Requirement: 6 NYCRR 621.13**

**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 1-2: Permit modifications, suspensions or revocations by the Department**

**Applicable State Requirement: 6 NYCRR 621.13**

**Item 1-2.1:**

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

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

**Condition 4: Permit Modifications, Suspensions and Revocations by the Department**

**Applicable State Requirement: 6 NYCRR 621.14**

**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



the Department related to the permitted activity.

**\*\*\*\* Facility Level \*\*\*\***

**Condition 5: Submission of Applications for Permit Modification or Renewal -REGION 7  
HEADQUARTERS**

**Applicable State Requirement: 6 NYCRR 621.5 (a)**

**Item 5.1:**

Submission of applications for permit modification or renewal are to be submitted to:  
NYSDEC Regional Permit Administrator  
Region 7 Headquarters  
Division of Environmental Permits  
615 Erie Blvd West  
Syracuse, NY 13204-2400  
(315) 426-7400

**Condition 1-3: Submission of application for permit modification or  
renewal-REGION 7**

**HEADQUARTERS**

**Applicable State Requirement: 6 NYCRR 621.6 (a)**

**Item 1-3.1:**

Submission of applications for permit modification or renewal are to be submitted to:  
NYSDEC Regional Permit Administrator  
Region 7 Headquarters  
Division of Environmental Permits  
615 Erie Blvd West  
Syracuse, NY 13204-2400  
(315) 426-7400

**New York State Department of Environmental Conservation**

Permit ID: 7-2532-00002/00003

Facility DEC ID: 7253200002



**Permit Under the Environmental Conservation Law (ECL)**

**ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY  
PERMIT**

**IDENTIFICATION INFORMATION**

Permit Issued To: COLGATE UNIVERSITY  
13 OAK DR  
HAMILTON, NY 13346

Facility: COLGATE UNIVERSITY  
94 HAMILTON ST|(CO RTE 70)  
HAMILTON, NY 13346

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

Permit Effective Date:

Permit Expiration Date:



## LIST OF CONDITIONS

### FEDERALLY ENFORCEABLE CONDITIONS

#### Facility Level

- 1-1 6 NYCRR Subpart 201-7: Facility Permissible Emissions
- \*1-2 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- \*1-3 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- \*1-4 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 1-5 6 NYCRR 211.1: Air pollution prohibited
- 1-6 6 NYCRR 225-1.2: Compliance Demonstration
- 1 : Compliance Demonstration
- 1-7 6 NYCRR 227-1.3: Compliance Demonstration
- 1-8 6 NYCRR 227-1.3: Compliance Demonstration
- 1-9 40CFR 60.42c(d), NSPS Subpart Dc: Compliance Demonstration
- 1-10 40CFR 60.43c(c), NSPS Subpart Dc: Compliance Demonstration
- 1-11 40CFR 60.48c(a), NSPS Subpart Dc: Compliance Demonstration
- 1-12 40CFR 60, NSPS Subpart IIII: Applicability
- 1-13 40CFR 60, NSPS Subpart JJJJ: Applicability
- 1-14 40CFR 63, Subpart CCCCCC: Compliance Demonstration
- 1-15 40CFR 63.11201(b), Subpart JJJJJJ: Compliance Demonstration
- 1-16 40CFR 63.11201(b), Subpart JJJJJJ: Compliance Demonstration
- 1-17 40CFR 63.11205(a), Subpart JJJJJJ: Good air pollution control practices
- 1-18 40CFR 63, Subpart ZZZZ: Applicability
- 1-19 40CFR 63, Subpart ZZZZ: Compliance Demonstration

#### Emission Unit Level

**EU=0-00001,EP=00001,Proc=100,ES=00001**

- 3 : Compliance Demonstration

**EU=U-00002**

- 5 : Compliance Demonstration

### STATE ONLY ENFORCEABLE CONDITIONS

#### Facility Level

- 6 ECL 19-0301: Contaminant List
- 1-20 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities
- 8 6 NYCRR Subpart 201-5: Emission Unit Definition
- 1-21 6 NYCRR 201-5.2 (c): Renewal deadlines for state facility permits
- 1-22 6 NYCRR 201-5.3 (c): Compliance Demonstration
- \*9 : Capping Monitoring Condition
- \*10 : Capping Monitoring Condition
- \*11 : Capping Monitoring Condition
- \*12 : Capping Monitoring Condition
- 1-23 6 NYCRR 211.2: Visible Emissions Limited

#### Emission Unit Level

- 14 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit
- 15 6 NYCRR Subpart 201-5: Process Definition By Emission Unit
- 16 : Process Permissible Emissions

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 - 6 NYCRR 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 - 6 NYCRR 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 - 6 NYCRR 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 - 6 NYCRR 201-1.2**

If an existing emission source was subject to the permitting requirements of 6 NYCRR 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 - 6 NYCRR 201-1.5**

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

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

- (1) An emergency occurred and that the facility owner and/or operator can identify the cause(s) of the emergency;
- (2) The equipment at the permitted facility causing the emergency was at the time being properly operated;
- (3) During the period of the emergency the facility owner and/or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
- (4) The facility owner and/or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

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



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

**Item F: Recycling and Salvage - 6 NYCRR 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 - 6 NYCRR 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 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 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 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 6 NYCRR Subpart 202-1.

- Item K: Open Fires Prohibitions - 6 NYCRR 215.2**  
Except as allowed by section 215.3 of 6 NYCRR Part 215, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.
- Item L: Permit Exclusion - ECL 19-0305**  
The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.
- Item M: Federally Enforceable Requirements - 40 CFR 70.6 (b)**  
All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

**FEDERAL APPLICABLE REQUIREMENTS**  
**The following conditions are federally enforceable.**

**Condition 1-1: Facility Permissible Emissions**



**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR Subpart 201-7**

**Item 1-1.1:**

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:

per year	CAS No: 000630-08-0 (From Mod 1)	PTE: 190,000 pounds
	Name: CARBON MONOXIDE	
per year	CAS No: 007446-09-5 (From Mod 1)	PTE: 190,000 pounds
	Name: SULFUR DIOXIDE	
per year	CAS No: 0NY210-00-0 (From Mod 1)	PTE: 190,000 pounds
	Name: OXIDES OF NITROGEN	

**Condition 1-2: Capping Monitoring Condition  
Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR Subpart 201-7**

**Item 1-2.1:**

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

6 NYCRR Subpart 201-6

**Item 1-2.2:**

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

**Item 1-2.3:**

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 1-2.4:**

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

**New York State Department of Environmental Conservation**

Permit ID: 7-2532-00002/00003

Facility DEC ID: 7253200002



applicable requirement.

**Item 1-2.5:**

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 1-2.6:**

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

Emission Unit: 0-00001  
Process: 101

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

**Item 1-2.7:**

Compliance Demonstration shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

1. On and after the date that Boilers 1, 2 and 3 first combust distillate oil, or on and after the date that Boilers 5 and 6 first combust distillate oil, whichever comes first, the owner or operator shall not combust in any boiler oil containing sulfur in excess of 0.0015 percent sulfur, by weight.
2. Compliance shall be determined through a certification from the fuel supplier.
3. In the event that distillate fuel oil is combusted that contains in excess of 0.0015 percent sulfur, by weight, the owner or operator shall submit a notice to the DEC of such occurrence.

Parameter Monitored: SULFUR CONTENT  
Upper Permit Limit: 0.0015 percent by weight  
Reference Test Method: Fuel supplier certification  
Monitoring Frequency: PER DELIVERY  
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY  
TIME (INSTANTANEOUS/DISCRETE OR GRAB)  
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 1-3:      Capping Monitoring Condition**  
**Effective for entire length of Permit**



**Applicable Federal Requirement:6 NYCRR Subpart 201-7**

**Item 1-3.1:**

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:

6 NYCRR Subpart 201-6

6 NYCRR Subpart 227-2

**Item 1-3.2:**

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

**Item 1-3.3:**

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 1-3.4:**

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 1-3.5:**

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 1-3.6:**

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

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

**Item 1-3.7:**

Compliance Demonstration shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

Facility-wide emissions of oxides of nitrogen shall not exceed 95 tons/year, based on a 12 month rolling average.

Emissions will be calculated utilizing the following equations and emission factors, or, if testing is



conducted, site-specific emission factors based on the most recent DEC-approved test results:

Distillate oil firing: Tons NO<sub>x</sub> = (gallons of distillate oil fired)x(20 pounds NO<sub>x</sub>/1000 gallons of oil)/2000.

Natural gas firing: Tons NO<sub>x</sub> = (million cubic feet of natural gas fired)x(100 pounds NO<sub>x</sub>/million cubic feet)/2000.

Wood firing: Tons NO<sub>x</sub> = (tons of wood fired)x(2 lb NO<sub>x</sub>/ton wood)/2000.

Facility-wide emissions shall be computed as the sum of emissions from distillate oil, natural gas and wood combustion. If facility-wide NO<sub>x</sub> emissions exceed 75 tons/yr for any 12 month period, Colgate shall determine site-specific emissions factors as follows: (1) if emissions of NO<sub>x</sub> from the dual fuel-fired boilers exceeds 37 tons per year, Colgate shall determine site-specific emissions factors for oil or gas combustion, and (2) if emissions of NO<sub>x</sub> from the wood-fired boiler exceeds 37 tons per year, Colgate shall determine site-specific emissions factors for wood combustion.

Colgate University shall provide this emissions information in the annual compliance certification. If annual NO<sub>x</sub> emissions exceed the cap at any time, Colgate shall submit a notice (in writing) to the DEC within 30 days of such excess emissions. When facility-wide emissions first exceed 75 tons for any 12 month period, Colgate shall submit to the DEC a notice of such emissions, and submit to the Department a test protocol for determining site-specific factors unless testing has previously been conducted. Testing shall be done in accordance with the time frames and procedures of 6 NYCRR 202-1. Upon DEC approval of the emission test report, Colgate shall compute emissions using the revised factors.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 95 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: 12-month total, rolled monthly

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 1-4: Capping Monitoring Condition  
Effective for entire length of Permit**



**Applicable Federal Requirement:6 NYCRR Subpart 201-7**

**Item 1-4.1:**

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:

6 NYCRR Subpart 201-6

**Item 1-4.2:**

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

**Item 1-4.3:**

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 1-4.4:**

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 1-4.5:**

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 1-4.6:**

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 1-4.7:**

Compliance Demonstration shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

Facility-wide emissions of carbon monoxide (CO) emissions shall not exceed 95 tons/year, based on a 12 month rolling average. Emissions will be calculated utilizing the following emission factors or, if testing is conducted, site-specific emission factors based on the



most recent DEC-approved test results:

Natural gas combustion = 84 pounds CO/million cu. ft. of natural gas;

Distillate oil = 5 pounds CO/1000 gallons of oil;

Wood chips = 0.60 pounds CO/mmBtu.

If the annual facility emissions from combustion exceed 75 tons, the facility owner/operator must conduct emissions testing on the boilers to document facility-specific emission factors.

Colgate University shall report annual CO emissions information in the annual compliance certification. If carbon monoxide emissions exceed the cap at any time, Colgate shall submit a notice (in writing) to the DEC within 30 days of such excess emissions. When facility-wide emissions first exceed 75 tons for any 12 month period, Colgate shall submit to the DEC a notice of such emissions, and submit to the Department a test protocol for determining site-specific factors unless testing has previously been conducted. Testing shall be done in accordance with the time frames and procedures of 6 NYCRR 202-1. Upon DEC approval of the emission test report, Colgate shall compute emissions using the revised factors.

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 95 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: 12-month total, rolled monthly

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 1-5: Air pollution prohibited  
Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 211.1**

**Item 1-5.1:**

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 1-6: Compliance Demonstration  
Effective for entire length of Permit**



**Applicable Federal Requirement:6 NYCRR 225-1.2**

**Item 1-6.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 1-6.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

No person will sell, offer for sale, purchase, or fire any fuel which exceeds the sulfur-in-fuel limitations stated below.

1. Facility-wide, on or after July 1, 2012 the owner or operator shall purchase number two heating oil with 0.0015 percent sulfur by weight or less. On or after July 1, 2016, the owner or operator shall not fire number two heating oil or distillate oil containing more than 0.0015 percent sulfur by weight.

2. Compliance shall be determined using fuel supplier certifications received each delivery.

3. The owner or operator shall submit to the DEC a written report of the fuel sulfur content exceeding the applicable sulfur-in-fuel limitation and the nature and cause of such exceedances if known, for each calendar quarter, within 30 days after the end of any quarterly period in which an exceedance takes place. A report is not required if there is no exceedance.

4. All records must be maintained at the facility for a minimum of five years.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.0015 percent by weight

Monitoring Frequency: PER DELIVERY

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

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 1: Compliance Demonstration**  
**Effective between the dates of 08/01/2005 and Permit Expiration Date**

**Applicable Federal Requirement:**

**Expired by Mod 1**

**New York State Department of Environmental Conservation**

Permit ID: 7-2532-00002/00003

Facility DEC ID: 7253200002



**Item 1.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 1.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

No person shall sell, offer for sale, purchase or use any fuel oil which has a sulfur content greater than the limit stated below. A log of the sulfur content in oil per delivery must be reported in the annual compliance certification. The log must be maintained on site for a minimum of five years after the date of the last entry.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: FUEL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 1.5 percent by weight

Monitoring Frequency: PER DELIVERY

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

Reporting Requirements: ANNUALLY (ANNIVERSARY)

Initial Report Due: 08/30/2006 for the period 08/01/2005 through 07/31/2006

**Condition 1-7: Compliance Demonstration  
Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR 227-1.3**

**Item 1-7.1:**

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-00002

Emission Point: 00002

**Item 1-7.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

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.

Compliance shall be determined using EPA Method 9 or a continuous opacity monitor. Upon the request of the DEC, the owner or operator shall submit to the DEC the results of opacity observations or COM data.

**New York State Department of Environmental Conservation**

Permit ID: 7-2532-00002/00003

Facility DEC ID: 7253200002



All records of observations must be maintained at the facility for a period of five years.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

**DESCRIPTION**

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 1-8: Compliance Demonstration  
Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 227-1.3**

**Item 1-8.1:**

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

- |                        |                       |
|------------------------|-----------------------|
| Emission Unit: 0-00001 | Emission Point: 00001 |
| Process: 100           |                       |
| Emission Unit: 0-00001 | Emission Point: 00001 |
| Process: 101           |                       |
| Emission Unit: 0-00001 | Emission Point: 00001 |
| Process: 102           |                       |

**Item 1-8.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This condition is applicable to Boilers 1, 2, 3, 5 and 6.

No person shall operate this emission unit in excess of 20 percent opacity (six minute average), except for one six-minute period per hour of not more than 27 percent opacity.

The owner or operator shall conduct opacity observations according to EPA Method 9 upon request from the DEC. Compliance shall be determined in accordance with 40 CFR Part 60, Appendix A-4, Method 9.

All records of observations must be maintained at the facility for a period of five years.



Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING  
DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 1-9: Compliance Demonstration**  
**Effective for entire length of Permit**

**Applicable Federal Requirement: 40CFR 60.42c(d), NSPS Subpart Dc**

**Item 1-9.1:**

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: 0-00001

Process: 102

**Item 1-9.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC  
OPERATIONS

Monitoring Description:

Boilers 5 and 6 are subject to 40 CFR Part 60, Subpart Dc. Boilers 5 and 6 are subject to a more stringent limit stated elsewhere in this permit. This condition does not waive the requirement to comply with that more-stringent limit. This condition is included for completeness.

1. Pursuant to 40 CFR § 60.42c(d), the owner or operator shall not combust distillate oil in Boilers 5 and/or 6 that contains greater than 0.5 weight percent sulfur. Pursuant to 40 CFR § 60.42c(h), compliance shall be determined on a certification from the fuel supplier.

2. Pursuant to 40 CFR § 60.48c(g), the owner or operator shall either (1) record and maintain records of the amount of each fuel combusted during each calendar month, or (2) record and maintain records of the total amount of each steam generating unit fuel delivered to that property during each calendar month.

3. Pursuant to 40 CFR § 60.48c(e), the owner or operator of each affected facility subject to the SO<sub>2</sub> emission limits, fuel oil sulfur limits, or percent reduction requirements under 40 CFR § 60.42c shall keep records and submit reports to the EPA and the DEC, on a semi-annual basis, and include the following information:



(1) Calendar dates covered in the reporting period.

(2) Records of fuel supplier certification as described below. In addition to records of fuel supplier certifications, the report shall include a certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period.

Fuel supplier certification shall include the following information:

- (i) The name of the oil supplier;
- (ii) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR § 60.41c; and
- (iii) The sulfur content or maximum sulfur content of the oil.

Work Practice Type: PARAMETER OF PROCESS MATERIAL  
Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL  
Parameter Monitored: SULFUR CONTENT  
Upper Permit Limit: 0.50 percent by weight  
Monitoring Frequency: PER DELIVERY  
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY  
TIME (INSTANTANEOUS/DISCRETE OR GRAB)  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 6 calendar month(s).

**Condition 1-10: Compliance Demonstration**  
**Effective for entire length of Permit**

**Applicable Federal Requirement: 40CFR 60.43c(c), NSPS Subpart Dc**

**Item 1-10.1:**

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

Emission Unit: 0-00001  
Process: 102

**Item 1-10.2:**

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

Boilers 5 and 6 are subject to 40 CFR Part 60, Subpart  
Dc.



1. Pursuant to 40 CFR § 60.43c(c): On and after the date on which the initial performance test is completed or required to be completed under 40 CFR § 60.8, whichever date comes first, no owner or operator shall cause to be discharged into the atmosphere from that affected facility any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity.
2. Pursuant to 40 CFR § 60.45c(a) The owner or operator shall conduct an initial performance test as required under 40 CFR § 60.8, and shall conduct subsequent performance tests as requested by the Administrator, to determine compliance with the opacity standard using Method 9 of appendix A-4 of 40 CFR Part 60.
3. The owner or operator shall submit to the EPA and the DEC the results of opacity performance test data within 60 days of completion of such tests.
4. Pursuant to 40 CFR § 60.48c(c), in addition to the applicable requirements in 40 CFR § 60.7, the owner or operator of an affected facility subject to the opacity limits in 40 CFR § 60.43c(c) shall submit excess emission reports for any excess emissions from the affected facility that occur during the reporting period and maintain records according to the requirements specified in paragraphs (c)(1) through (3) of this section, as applicable to the visible emissions monitoring method used.
  - (1) For each performance test conducted using Method 9 of appendix A-4 of this part, the owner or operator shall keep the records including the information specified below:
    - (i) Dates and time intervals of all opacity observation periods;
    - (ii) Name, affiliation, and copy of current visible emission reading certification for each visible emission observer participating in the performance test; and
    - (iii) Copies of all visible emission observer opacity field data sheets.

Parameter Monitored: OPACITY  
Upper Permit Limit: 20 percent  
Reference Test Method: EPA Method 9

**New York State Department of Environmental Conservation**

Permit ID: 7-2532-00002/00003

Facility DEC ID: 7253200002



Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 1-11: Compliance Demonstration**  
**Effective for entire length of Permit**

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

**Item 1-11.1:**

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: 0-00001

Process: 102

Emission Unit: 0-00001

Process: 104

**Item 1-11.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Boilers 5 and 6 are subject to 40 CFR Part 60, Subpart Dc.

1. Pursuant to 40 CFR § 60.48c(a): The owner or operator of each affected facility shall submit notification of the date of construction or reconstruction and actual startup, as provided by 40 CFR § 60.7 of this part. This notification shall include:

(1) The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility.

(2) Reserved

(3) The annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 1-12: Applicability**  
**Effective for entire length of Permit**



**Applicable Federal Requirement:40CFR 60, NSPS Subpart IIII**

**Item 1-12.1:**

Facilities that have stationary compression ignition internal combustion engines must comply with applicable portions of 40 CFR 60 Subpart IIII.

**Condition 1-13:     Applicability**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 60, NSPS Subpart JJJJ**

**Item 1-13.1:**

Facilities that have stationary spark ignition internal combustion engines must comply with applicable portions of 40 CFR 60 subpart JJJJ.

**Condition 1-14:     Compliance Demonstration**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 63, Subpart CCCCCC**

**Item 1-14.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 1-14.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Colgate operates gasoline dispensing stations, subject to 40 CFR Part 63, Subpart CCCCCC.

1. Pursuant to 40 CFR 63.11111(e), the owner or operator of an affected source shall, upon request by the Administrator, demonstrate that their monthly throughput is less than the 10,000-gallon threshold level. Records required under this paragraph shall be kept for a period of 5 years.

Monthly throughput is the total volume of gasoline loaded into, or dispensed from, all the gasoline storage tanks located at a single affected GDF. If an area source has two or more GDF at separate locations within the area source, each GDF is treated as a separate affected source.

2. Pursuant to 40 CFR 63.11115(a), the owner or operator must, at all times, operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for



minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

3. Pursuant to 40 CFR 63.11116(a), the owner or operator must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:

(i) Minimize gasoline spills;

(ii) Clean up spills as expeditiously as practicable;

(iii) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use; Portable gasoline containers that meet the requirements of 40 CFR part 59, subpart F, are considered acceptable for compliance with this paragraph.

(iv) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.

4. The owner or operator is not required to submit notifications or reports as specified in § 63.11125, § 63.11126, or subpart A of this part, but the owner or operator must have records available within 24 hours of a request by the Administrator to document your gasoline throughput.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 1-15: Compliance Demonstration**  
**Effective for entire length of Permit**

**Applicable Federal Requirement: 40CFR 63.11201(b), Subpart JJJJJJ**

**Item 1-15.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 1-15.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

**New York State Department of Environmental Conservation**

Permit ID: 7-2532-00002/00003

Facility DEC ID: 7253200002



Monitoring Description:

The central heating plant boilers are subject to 40 CFR Part 63, Subpart JJJJJ.

Initial Tune ups

Pursuant to 40 CFR 63.11205(a), for existing boilers, the owner or operator must conduct an initial tune-up as specified in § 63.11214 by March 21, 2014, and submit a signed statement in the Notification of Compliance Status report that indicates that the owner or operator conducted a tune-up of the boiler.

Pursuant to 40 CFR § 63.11210(f), for new or reconstructed affected boilers, the owner or operator is not required to complete an initial performance tune-up, but is required to complete the applicable biennial or 5-year tune-up.

Biennial or five year tune up

Pursuant to 40 CFR § 63.11205(a), the owner or operator must conduct a tune-up of the boiler biennially as specified in § 63.11223 unless the boiler is equipped with an O<sub>2</sub> trim system that maintains an optimum air-to-fuel ratio, in which case a tune up is required every five years. Each biennial tune-up must be conducted no more than 25 months after the previous tune-up. For a new or reconstructed boiler, the first biennial tune-up must be no later than 25 months after the initial startup of the new or reconstructed boiler.

Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up. For a new or reconstructed boiler with an oxygen trim system, the first 5-year tune-up must be no later than 61 months after the initial startup. The owner or operator may delay the burner inspection specified in 40 CFR § 63.11205(b)(1) and inspection of the system controlling the air-to-fuel ratio specified in paragraph 40 CFR § 63.11205(b)(3) until the next scheduled unit shutdown, but the owner or operator must inspect each burner and system controlling the air-to-fuel ratio at least once every 72 months.

On an annual basis, the owner or operator shall state, in the annual certification, whether he or she has complied with this requirement.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.



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

**Condition 1-16: Compliance Demonstration**  
**Effective for entire length of Permit**

**Applicable Federal Requirement: 40CFR 63.11201(b), Subpart JJJJJJ**

**Item 1-16.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 1-16.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Energy Assessment – not required for new boilers

The owner or operator must have a one-time energy assessment performed by a qualified energy assessor no later than March 21, 2014. An energy assessment completed on or after January 1, 2008, that meets or is amended to meet the energy assessment requirements in this table satisfies the energy assessment requirement. Energy assessor approval and qualification requirements are waived in instances where past or amended energy assessments are used to meet the energy assessment requirements. A facility that operates under an energy management program compatible with ISO 50001 that includes the affected units also satisfies the energy assessment requirement. The energy assessment must include the following with extent of the evaluation for items (1) to (4) appropriate for the on-site technical hours listed in 40 CFR § 63.11237:

- (1) A visual inspection of the boiler system,
- (2) An evaluation of operating characteristics of the affected boiler systems, specifications of energy use systems, operating and maintenance procedures, and unusual operating constraints,
- (3) An inventory of major energy use systems consuming energy from affected boiler(s) and which are under control of the boiler owner or operator,
- (4) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage,
- (5) A list of major energy conservation measures that are within the facility's control,
- (6) A list of the energy savings potential of the energy conservation measures identified, and
- (7) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.



The owner or operator must submit a signed certification in the Notification of Compliance Status report that an energy assessment of the boiler and its energy use systems was completed according to Table 2 to 40 CFR Part 63, Subpart JJJJJ.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 1-17: Good air pollution control practices  
Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 63.11205(a), Subpart JJJJJ**

**Item 1-17.1:**

At all times the owner or operator must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

**Condition 1-18: Applicability  
Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 63, Subpart ZZZZ**

**Item 1-18.1:**

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

**Condition 1-19: Compliance Demonstration  
Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 63, Subpart ZZZZ**

**Item 1-19.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 1-19.2:**

Compliance Demonstration shall include the following monitoring:

**New York State Department of Environmental Conservation**

Permit ID: 7-2532-00002/00003

Facility DEC ID: 7253200002



Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This facility has, on site, emergency stationary internal combustion engines.

Pursuant to 40 CFR 63.6585(f)(3), existing institutional emergency stationary RICE located at an area source of HAP emissions that do not operate or are not contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 § 63.6640(f)(2)(ii) and (iii) and that do not operate for the purpose specified in 40 § 63.6640(f)(4)(ii) do not have to meet the requirements of 40 CFR Part 63, Subpart ZZZZ and of Subpart A, including initial notification requirements.

Pursuant to 40 CFR 63.6590(c), a new or reconstructed stationary RICE located at an area source must meet the requirements of 40 CFR Part 63, Subpart ZZZZ by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under 40 CFR Part 63, Subpart ZZZZ.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

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

**Condition 3: Compliance Demonstration**  
**Effective between the dates of 08/01/2005 and Permit Expiration Date**

**Applicable Federal Requirement:**

**Expired by Mod 1**

**Item 3.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001

Emission Point: 00001

Process: 100

Emission Source: 00001

**Item 3.2:**

Compliance Demonstration shall include the following monitoring:

**New York State Department of Environmental Conservation**

Permit ID: 7-2532-00002/00003

Facility DEC ID: 7253200002



Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

No person shall operate this emission unit in excess of 20 percent opacity (six minute average), except for one six-minute period per hour of not more than 27 percent opacity.

The owner or operator shall conduct opacity observations according to EPA Method 9 upon request from the DEC.

At least once per calendarquarter period (January 1 to June 30, July 1 to December 31), the owner or operator shall observe the emissions points while the devices are in operation. The owner or operator shall record the date, the time, the weather conditions (rain, snow, cloudy, clear), and whether there is any visible plume (excluding condensed water vapor). To the extent practicable, the observer shall position him or herself with the sun behind his or her back. Such testing is not required if fuel oil is combusted for less than 168 hours in the semi-annual period.

In the event that visible emissions are observed, the owner or operator shall contact the Department by phone as soon as practicable, but in no event later than two business days after conducting the observation. Within 30 days, when requested by the Department in writing, the owner or operator must submit to the Department a report describing the emissions.

All records of observations must be maintained at the facility for a period of five years.

A report must be submitted to the Department annually (calendar basis) stating whether the monitoring has been conducted. Reports must be submitted no later than 30 days after the end of each annual period.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 5: Compliance Demonstration**  
**Effective between the dates of 08/01/2005 and Permit Expiration Date**

**Applicable Federal Requirement:**



**Expired by Mod 1**

**Item 5.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00002

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 5.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

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 owner or operator shall conduct opacity observations according to EPA Method 9 upon request from the DEC.

At least once per calendarquarter period (January 1 to June 30, July 1 to December 31), the owner or operator shall observe the emissions points while the devices are in operation. The owner or operator shall record the date, the time, the weather conditions (rain, snow, cloudy, clear), and whether there is any visible plume (excluding condensed water vapor). To the extent practicable, the observer shall position him or herself with the sun behind his or her back. Such testing is not required if fuel oil is combusted for less than 168 hours in the semi-annual period.

In the event that visible emissions are observed, the owner or operator shall contact the Department by phone as soon as practicable, but in no event later than two business days after conducting the observation. Within 30 days, when requested by the Department in writing, the owner or operator must submit to the Department a report describing the emissions.

All records of observations must be maintained at the facility for a period of five years.

A report must be submitted to the Department annually (calendar basis) stating whether the monitoring has been conducted. Reports must be submitted no later than 30 days after the end of each annual period.

**New York State Department of Environmental Conservation**

**Permit ID: 7-2532-00002/00003**

**Facility DEC ID: 7253200002**



Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING  
DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION



**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 - 6 NYCRR 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 6: Contaminant List**

**Effective between the dates of 08/01/2005 and Permit Expiration Date**

**Applicable State Requirement:ECL 19-0301**

**Item 6.1:**

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

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

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

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

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

**Condition 1-20: Malfunctions and start-up/shutdown activities  
Effective for entire length of Permit**

**Applicable State Requirement:6 NYCRR 201-1.4**

**Item 1-20.1:**

(a) The facility owner or operator shall take all necessary and appropriate actions to prevent the emission of air pollutants that result in contravention of any applicable emission standard during periods of start-up, shutdown, or malfunction.

(b) The facility owner or operator shall compile and maintain records of all equipment malfunctions, maintenance, or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when requested to do so, or when so required by a condition of a permit issued for the corresponding air contamination source. Such reports shall state whether any violations occurred and, if so, whether they were unavoidable, include the time, frequency and duration of the maintenance and/or start-up/shutdown activities, and an estimate of the emission rates of any air contaminants released. Such records shall be maintained for a period of at least five years and made available for review to department representatives upon request. Facility owners or operators subject to continuous stack monitoring and quarterly reporting requirements need not submit additional reports for equipment maintenance or start-up/shutdown activities for the facility to the department.

(c) In the event that emissions of air contaminants in excess of any emission standard in this Subchapter occur due to a malfunction, the facility owner or operator shall compile and maintain records of the malfunction and notify the department as soon as possible during normal working hours, but not later than two working days after becoming aware that the malfunction occurred. When requested by the department, the facility owner or operator shall submit a written report



to the department describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates.

(d) The department may also require the owner or operator to include, in reports described under Subdivisions (b) and (c) of this Section, an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions.

(e) A violation of any applicable emission standard resulting from start-up, shutdown, or malfunction conditions at a permitted or registered facility may not be subject to an enforcement action by the department and/or penalty if the department determines, in its sole discretion, that such a violation was unavoidable. The actions and recordkeeping and reporting requirements listed above must be adhered to in such circumstances.

**Condition 8: Emission Unit Definition**  
**Effective between the dates of 08/01/2005 and Permit Expiration Date**

**Applicable State Requirement:6 NYCRR Subpart 201-5**

**Item 8.1(From Mod 1):**

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

Emission Unit: 0-00001

Emission Unit Description:

This emission unit consists of three oil fired boilers that exhaust through a common stack. There are no emission controls on the boilers. All three boilers will be removed and replaced with 2 new boilers. The new boilers will be dual-fueled with No. 2 oil and natural gas capability, and passive flue gas recirculation. Once the Village of Hamilton provides natural gas supply, the boilers will combust natural gas with No. 2 fuel oil as a back-up fuel to be used during periods of gas curtailment, gas supply emergencies, or periodic testing on liquid fuel.

Emission guarantees on the burner assembly are as follows:

Firing natural gas, 0.036 lb NO<sub>x</sub>/mmBtu and 0.074 lb CO/mmBtu. Firing fuel oil: 0.105 lb NO<sub>x</sub>/mmBtu.

Building(s): 01

**Item 8.2(From Mod 1):**

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

Emission Unit: U-00002

Emission Unit Description:

COLGATE UNIVERSITY WOOD FIRED BOILER THAT DISCHARGES TO THE ATMOSPHERE THROUGH A DEDICATED STACK. THE WOOD FIRED BOILER IS EQUIPPED WITH TWO MULTIPLE CYCLONE SEPARATORS FOR PARTICULATE EMISSION CONTROL.

Building(s): 01



**Condition 1-21: Renewal deadlines for state facility permits  
Effective for entire length of Permit**

**Applicable State Requirement:6 NYCRR 201-5.2 (c)**

**Item 1-21.1:**

The owner or operator of a facility having an issued state facility permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.

**Condition 1-22: Compliance Demonstration  
Effective for entire length of Permit**

**Applicable State Requirement:6 NYCRR 201-5.3 (c)**

**Item 1-22.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 1-22.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Any reports or submissions required by this permit shall be submitted to the Regional Air Pollution Control Engineer (RAPCE) at the following address:

Division of Air Resources  
NYS Dept. of Environmental Conservation  
Region 7  
615 Erie Blvd West  
Syracuse, NY 13204

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 9: Capping Monitoring Condition  
Effective between the dates of 08/01/2005 and Permit Expiration Date**

**Applicable State Requirement:**

**Expired by Mod 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:

6 NYCRR Subpart 201-6



**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.

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 9.7:**

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Facility-wide emissions of carbon monoxide (CO) emissions shall not exceed 95 tons/year, based on a 12 month rolling average. Emissions will be calculated utilizing the following emission factors:

Natural gas combustion = 84 pounds CO/million cu. ft. of Nat. gas;

Distillate and/or residual oil = 5 pounds CO/1000 gallons of oil;

Wood chips = 5.12 pounds CO/ton wood.

If the annual facility emissions from oil combustion exceed 50 tons, the facility owner/operator must conduct emissions testing on the oil-fired boilers to document facility specific emission factors for those fuel types.



Colgate University shall provide this emissions information in the annual compliance certification. If carbon monoxide emissions exceed the cap at any time, Colgate shall submit a notice (in writing) to the DEC within 30 days of such excess emissions. If emissions from oil combustion exceed 50 tons/year for any 12 month period, Colgate must submit to the DEC the following: (1) a written notice of such emissions and (2) a protocol for developing facility specific emission factors through testing.

Monitoring Frequency: MONTHLY  
Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2006.  
Subsequent reports are due every 12 calendar month(s).

**Condition 10: Capping Monitoring Condition**  
**Effective between the dates of 08/01/2005 and Permit Expiration Date**

**Applicable State Requirement:**

**Expired by Mod 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:

6 NYCRR Subpart 201-6  
6 NYCRR Subpart 227-2

**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.

**Item 10.3:**

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 10.4:**

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 10.5:**

New York State Department of Environmental Conservation

Permit ID: 7-2532-00002/00003

Facility DEC ID: 7253200002



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 10.6:**

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

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

**Item 10.7:**

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Facility-wide emissions of oxides of nitrogen shall not exceed 95 tons/year, based on a 12 month rolling average.

Emissions will be calculated utilizing the following equations and emission factors:

Distillate oil firing:  $\text{Tons NO}_x = (\text{gallons of distillate oil fired}) \times (20 \text{ pounds NO}_x / 1000 \text{ gallons of oil}) / 2000$ .

Residual oil firing:  $\text{Tons NO}_2 = (\text{gallons of residual oil fired}) \times (55 \text{ pounds NO}_x / 1000 \text{ gallons of fuel oil}) / 2000$ .

Wood firing:  $\text{Tons NO}_x = (\text{tons of wood fired}) \times (2 \text{ lb NO}_x / \text{ton wood}) / 2000$ .

Facility-wide emissions shall be computed as the sum of emissions from distillate oil, residual oil and wood combustion. If facility-wide NO<sub>x</sub> emissions exceed 50 tons/yr for any 12 month period, Colgate shall determine site-specific emissions factors as follows: (1) if emissions of NO<sub>x</sub> from the oil-fired boilers exceeds 25 tons per year, Colgate shall determine site-specific emissions factors for oil combustion, and (2) if emissions of NO<sub>x</sub> from the wood-fired boiler exceeds 25 tons per year, Colgate shall determine site-specific emissions factors for wood combustion.

Colgate University shall provide this emissions information in the annual compliance certification. If annual NO<sub>x</sub> emissions exceed the cap at any time, Colgate shall submit a notice (in writing) to the DEC within 30 days of such excess emissions. If facility-wide emissions exceed 50 tons for any 12 month period, Colgate shall submit to the DEC a notice of such emissions, and submit to the Department a test protocol for determining



site-specific factors. Testing shall be done in accordance with the time frames and procedures of 6 NYCRR 202-1. Upon DEC approval of the emission test report, Colgate shall compute emissions using the revised factors.

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 1/30/2006.

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

**Condition 11: Capping Monitoring Condition**  
**Effective between the dates of 08/01/2005 and Permit Expiration Date**

**Applicable State Requirement:**

**Expired by Mod 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:

6 NYCRR Subpart 201-6  
40 CFR 52.21

**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.

New York State Department of Environmental Conservation

Permit ID: 7-2532-00002/00003

Facility DEC ID: 7253200002



**Item 11.6:**

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5      SULFUR DIOXIDE

**Item 11.7:**

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Facility-wide emissions of sulfur dioxide shall not exceed 95 tons/year, based on a 12 month rolling average. Emissions will be calculated utilizing the following equations and emission factors:

Distillate oil firing:  $\text{Tons SO}_2 = (\text{gallons of distillate oil fired}) \times (142\text{S pounds SO}_2/1000 \text{ gallons of oil})/2000$ , where "S" is the percent sulfur in the fuel.

Residual oil firing:  $\text{Tons SO}_2 = (\text{gallons of residual oil fired}) \times (157\text{S pounds SO}_2/1000 \text{ gallons of fuel oil})/2000$ , where "S" equals 1.5.

Colgate University shall provide this emissions information in the annual compliance certification. If annual SO<sub>2</sub> emissions exceed the cap at any time, Colgate shall submit a notice (in writing) to the DEC within 30 days of such excess emissions.

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 1/30/2006.

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

**Condition 12:      Capping Monitoring Condition**  
**Effective between the dates of 08/01/2005 and Permit Expiration Date**

**Applicable State Requirement:**

**Expired by Mod 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:

6 NYCRR Subpart 201-6



**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.

Regulated Contaminant(s):

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

**Item 12.7:**

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Facility-wide emissions of oxides of particulate matter - 10 microns (PM-10) shall not exceed 95 tons/year, based on a 12 month rolling average. Emissions will be calculated utilizing the following equations and emission factors:

Distillate oil firing: Tons PM-10 = (gallons of distillate oil fired)x(2.3 pounds PM-10/1000 gallons of oil)/2000.

Residual oil firing: Tons PM-10 = (gallons of residual oil fired)x(16.2 pounds PM-10/1000 gallons of fuel oil)/2000.

Wood firing: Tons PM-10 = (tons of wood fired)x(4.23 lb PM-10/ton wood)/2000.



Facility-wide emissions shall be computed as the sum of emissions from distillate oil, residual oil and wood combustion. If facility-wide PM-10 emissions exceed 50 tons/yr for any 12 month period, Colgate shall determine site-specific emissions factors as follows: (1) if emissions of PM-10 from the oil-fired boilers exceeds 25 tons per year, Colgate shall determine site-specific emissions factors for oil combustion, and (2) if emissions of PM-10 from the wood-fired boiler exceeds 25 tons per year, Colgate shall determine site-specific emissions factors for wood combustion.

Colgate University shall provide this emissions information in the annual compliance certification. If annual PM-10 emissions exceed the cap at any time, Colgate shall submit a notice (in writing) to the DEC within 30 days of such excess emissions. If facility-wide emissions exceed 50 tons for any 12 month period, Colgate shall submit to the DEC a notice of such emissions, and submit to the Department a test protocol for determining site-specific factors. Testing shall be done in accordance with the time frames and procedures of 6 NYCRR 202-1. Upon DEC approval of the emission test report, Colgate shall compute emissions using the revised factors.

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 1/30/2006.

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

**Condition 1-23: Visible Emissions Limited**  
**Effective for entire length of Permit**

**Applicable State Requirement:6 NYCRR 211.2**

**Item 1-23.1:**

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

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

**Condition 14: Emission Point Definition By Emission Unit**  
**Effective between the dates of 08/01/2005 and Permit Expiration Date**



**Applicable State Requirement:6 NYCRR Subpart 201-5**

**Item 14.1(From Mod 1):**

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

Emission Unit: 0-00001

Emission Point: 00001

Height (ft.): 185

Diameter (in.): 48

NYTMN (km.): 4740.7

NYTME (km.): 455.7

Building: 01

**Item 14.2(From Mod 1):**

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

Emission Unit: U-00002

Emission Point: 00002

Height (ft.): 72

Diameter (in.): 26

NYTMN (km.): 4740.7

NYTME (km.): 455.7

Building: 01

**Condition 15: Process Definition By Emission Unit**

**Effective between the dates of 08/01/2005 and Permit Expiration Date**

**Applicable State Requirement:6 NYCRR Subpart 201-5**

**Item 15.1(From Mod 1):**

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

Emission Unit: 0-00001

Process: 100

Source Classification Code: 1-03-004-02

Process Description:

COMBUSTION OF NO. 6 OIL IN 3 STATIONARY BOILERS TO GENERATE STEAM. This process will be discontinued when the existing Boilers 00001 and 00002 are converted to and become operational firing No. 2 Fuel Oil.

Emission Source/Control: 00001 - Combustion

Design Capacity: 46,761,446 British thermal units per hour

Emission Source/Control: 00002 - Combustion

Design Capacity: 46,761,446 British thermal units per hour

Emission Source/Control: 00003 - Combustion

Design Capacity: 25,106,000 British thermal units per hour

**Item 15.2(From Mod 1):**

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

Emission Unit: 0-00001

Process: 101

Source Classification Code: 1-03-005-02

New York State Department of Environmental Conservation

Permit ID: 7-2532-00002/00003

Facility DEC ID: 7253200002



Process Description:

Firing distillate oil in the existing boilers. Existing Boilers 00001 and 00002 will be converted from No. 6 oil to distillate oil and existing Boiler 00003 will be removed. It is estimated that the conversion and removal will occur in June 2013.

Emission Source/Control: 00001 - Combustion

Design Capacity: 46,761,446 British thermal units per hour

Emission Source/Control: 00002 - Combustion

Design Capacity: 46,761,446 British thermal units per hour

**Item 15.3(From Mod 1):**

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

Emission Unit: 0-00001

Process: 102

Source Classification Code: 1-03-005-02

Process Description:

Firing distillate oil in Boiler 00005 and Boiler 00006.

Emission Source/Control: 00005 - Combustion

Design Capacity: 71.69 million Btu per hour

Emission Source/Control: 00006 - Combustion

Design Capacity: 71.69 million Btu per hour

**Item 15.4(From Mod 1):**

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

Emission Unit: 0-00001

Process: 104

Source Classification Code: 1-03-006-02

Process Description:

Combustion of natural gas in Boiler 5 and/or Boiler 6.

Emission Source/Control: 00005 - Combustion

Design Capacity: 71.69 million Btu per hour

Emission Source/Control: 00006 - Combustion

Design Capacity: 71.69 million Btu per hour

**Item 15.5(From Mod 1):**

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

Emission Unit: U-00002

Process: 200

Source Classification Code: 1-03-009-03

Process Description:

COMBUSTION OF WOOD CHIPS IN 1 STATIONARY BOILER TO GENERATE STEAM.

Emission Source/Control: 0000A - Combustion

Design Capacity: 40.2 million Btu per hour

**New York State Department of Environmental Conservation**

Permit ID: 7-2532-00002/00003

Facility DEC ID: 7253200002



Emission Source/Control: 0000D - Control  
Control Type: MULTIPLE CYCLONE W/O FLY ASH INJECTION

Emission Source/Control: 0000E - Control  
Control Type: MULTIPLE CYCLONE W/ FLY ASH INJECTION

**Condition 16: Process Permissible Emissions**  
**Effective between the dates of 08/01/2005 and Permit Expiration Date**

**Applicable State Requirement:**

**Expired by Mod 1**  
**Applicaton Specific Data**

