



**New York State Department of Environmental Conservation  
Permit Review Report**

**Permit ID: 7-0348-00027/00011**

**Renewal Number: 2**

**Modification Number: 1 01/14/2016**

**Facility Identification Data**

Name: SUNY AT BINGHAMTON  
Address: 4400 VESTAL PKWY E  
BINGHAMTON, NY 13902

**Owner/Firm**

Name: STATE UNIVERSITY OF NEW YORK  
Address: STATE UNIVERSITY PLAZA  
381 BROADWAY  
ALBANY, NY 12246, USA  
Owner Classification: State

**Permit Contacts**

Division of Environmental Permits:  
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SYRACUSE, NY 13204-2400  
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Division of Air Resources:  
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615 ERIE BLVD W  
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Air Permitting Facility Owner Contact:  
Name: SANDY S DE JOHN  
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PO BOX 6000  
BINGHAMTON, NY 13902-6000  
Phone:6077774017

**Permit Description**

**Introduction**

The Title V operating air permit is intended to be a document containing only enforceable terms and conditions as well as any additional information, such as the identification of emission units, emission points, emission sources and processes, that makes the terms meaningful. 40 CFR Part 70.7(a)(5) requires that each Title V permit have an accompanying "...statement that sets forth the legal and factual basis for the draft permit conditions". The purpose for this permit review report is to satisfy the above requirement by providing pertinent details regarding the permit/application data and permit conditions in a more easily understandable format. This report will also include background narrative and explanations of regulatory decisions made by the reviewer. It should be emphasized that this permit review report, while based on information contained in the permit, is a separate document and is not itself an enforceable term and condition of the permit.

**Summary Description of Proposed Project**

This permit authorizes the construction and operation of an electrostatic precipitator on Units 2 and 3, and modifications of the furnaces on Units 2 and 3.

**Attainment Status**



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SUNY AT BINGHAMTON is located in the town of VESTAL in the county of BROOME. The attainment status for this location is provided below. (Areas classified as attainment are those that meet all ambient air quality standards for a designated criteria air pollutant.)

<b>Criteria Pollutant</b>	<b>Attainment Status</b>
Particulate Matter (PM)	ATTAINMENT
Particulate Matter< 10µ in diameter (PM10)	ATTAINMENT
Sulfur Dioxide (SO2)	ATTAINMENT
Ozone*	TRANSPORT REGION (NON-ATTAINMENT)
Oxides of Nitrogen (NOx)**	ATTAINMENT
Carbon Monoxide (CO)	ATTAINMENT

\* Ozone is regulated in terms of the emissions of volatile organic compounds (VOC) and/or oxides of nitrogen (NOx) which are ozone precursors.

\*\* NOx has a separate ambient air quality standard in addition to being an ozone precursor.

**Facility Description:**

This facility is one of the University Centers of SUNY system with approximately 16,500 students. The Central Heating Plant (CHP) is equipped with three 100-million BTU/hr and one 50-million BTU/hr vibra-grate stokers which can fire coal, wood, natural gas and air-propane (synthesized gas). The CHP provides high temperature hot water (HTHW) to about 65% of the building space on campus for heating, domestic hot water production and one absorption chiller (summer only). Adjacent to the Central Heating Plant is a propane storage facility and air-propane production plant. Five 30,000 capacity gallon tanks are typically filled to 85% level for campus back-up fuel supply. Air propane plant is used to mix air and propane to simulate the heating value of natural gas. A 50 million BTU/hr flare was installed to burn off the gas during system start-up. This flare has not been in use since the University piped the start-up waste gas to the high temperature hot water generators for beneficial use. Two propane ring burners each rated at 2.24 million BTU/hr are used in the winter to vaporize liquid propane for synthetic gas production.

Other stationary emission sources include 143 natural gas fired boilers all rated less than 10 million BTU/hr, 50 stationary emergency generators fueled by either diesel or natural gas, a paint spray booth, a gasoline dispensing station, laboratory fume hoods, and air conditioning and ventilation systems.

**Permit Structure and Description of Operations**

The Title V permit for SUNY AT BINGHAMTON

is structured in terms of the following hierarchy: facility, emission unit, emission point, emission source and process. A facility is defined as all emission sources located at one or more adjacent or contiguous properties owned or operated by the same person or persons under common control. The facility is subdivided into one or more emission units (EU). Emission units are defined as any part or activity of a stationary facility that emits or has the potential to emit any federal or state regulated air pollutant. An emission unit is represented as a grouping of processes (defined as any activity involving one or more emission sources (ES) that emits or has the potential to emit any federal or state regulated air pollutant). An emission source is defined as any apparatus, contrivance or machine capable of causing emissions of any air contaminant to the outdoor atmosphere, including any appurtenant exhaust system or air cleaning device. [NOTE: Indirect sources of air contamination as defined in 6 NYCRR Part 203 (i.e. parking lots)



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are excluded from this definition]. The applicant is required to identify the principal piece of equipment (i.e., emission source) that directly results in or controls the emission of federal or state regulated air pollutants from an activity (i.e., process). Emission sources are categorized by the following types:

- combustion - devices which burn fuel to generate heat, steam or power
- incinerator - devices which burn waste material for disposal
- control - emission control devices
- process - any device or contrivance which may emit air contaminants that is not included in the above categories.

SUNY AT BINGHAMTON is defined by the following emission unit(s):

Emission unit U0001A - 30 mmBtu/hr coal/gas high temperature hot water generator manufactured by International Boiler Works. The generator is equipped with Detroit Stoker vibra-grate coal stokers.

Emission unit U0001A is associated with the following emission points (EP):  
0001A

Process: 002 is located at Building 23 - Burning coal or a coal-wood mixture with or without gaseous fuels in Unit 1 to produce hot water at 360 F, 300 psi.

Process: 003 is located at Building 23 - Combustion of natural gas in Unit 1. Water at 360 F and 300 psi.

Process: 01P is located at Building 23 - Combustion of a propane/air mix in Unit 1.

Process: 01W is located at Building 23 - Wood combustion in Unit 1, alone or in combination with natural gas or propane/air.

Process: 002 is located at 1, Building 23 - PRODUCTION OF CENTRAL SUPPLY OF HTHW FOR CAMPUS UTILITIES (360 F @ 300PSI) 50 MMBTU/HR. INPUT (DERATED 1995 TO 35 MMBTU/HR.) PRODUCTION OF CENTRAL SUPPLY OF HTHW FOR CAMPUS UTILITIES (360 F @ 300PSI) 50 MMBTU/HR. INPUT (DERATED 1955 TO 35 MMBTU/HR.)

Emission unit U-0023 - Boilers 2 and 3 with new ESP, existing stacks and new ESP stack.

Emission unit U-0023 is associated with the following emission points (EP):  
U2U3X

Process: 23C is located at Building 23 - Coal, coal/wood, with or without gas firing in Unit 2 and/or Unit 3 prior to ESP.

Process: 23W is located at Building 23 - Wood or wood/gas combustion in Unit 2 and/or Unit 3 prior to ESP.



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Process: ESP is located at Building 23 - Wood or wood/gas combustion in Unit 2 and/or Unit 3 after  
Process: GAS is located at Building 23 - Gas or propane only combustion in unit 2 and/or unit 3.

Emission unit U0004A - 70 mmBtu/hr heat input IBW high temperature hot water generator equipped with Detroit Stoker vibra-grate system.

Emission unit U0004A is associated with the following emission points (EP):  
0004A

Process: 008 is located at Building 23 - Combustion of coal or a coal-wood mixture with or without gaseous fuels in Unit 4 to make 360 F, 300 psi water.

Process: 009 is located at Building 23 - Combustion of natural gas in Unit 3 to make 360 F, 300 psi water.

Process: 04P is located at Building 23 - Combustion of propane/air in Unit 4.

Process: 04W is located at Building 23 - Wood combustion in Unit 4, alone or in combination with natural gas or propane/air.

Emission unit U0005A - One 50 mmBtu/hr flare stack burning propane. The flare is operated for about 15 minutes at start-up, 100 hours/year.

This flare is part of a liquid propane/air standby system capable of supplying 150 mmBtu/hr of LPG/air compatible with the natural gas supply system. Four aqua-blend (WBV 1600V) 30,000 gallon (maintained at 80% capacity) propane tanks act as a backup for emergency campus energy uses.

There are also two flares, rated at 2.24 mmBtu/hr, using propane, that operate from November-April. These flares are exempt combustion devices.

Emission unit U0005A is associated with the following emission points (EP):  
0005A

Process: 001 is located at Building 130 - LPG/air standby system capable of supplying 50 mmBtu/hr of LPG/air compatible with natural gas system. Four aqua-blend (WB 1600V) 30,000 gallon (maintained at 80% capacity) propane tanks act as an emergency backup.

The system is equipped with a vaporizer burner rated at 2.4 mmBtu/hr, which is exempt from permitting.

**Title V/Major Source Status**

SUNY AT BINGHAMTON is subject to Title V requirements. This determination is based on the following information:

The facility is major for sulfur dioxide. Once coal is no longer combusted, the facility will be minor.

**Program Applicability**



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The following chart summarizes the applicability of SUNY AT BINGHAMTON with regards to the principal air pollution regulatory programs:

Regulatory Program	Applicability
PSD	NO
NSR (non-attainment)	NO
NESHAP (40 CFR Part 61)	NO
NESHAP (MACT - 40 CFR Part 63)	YES
NSPS	YES
TITLE IV	NO
TITLE V	YES
TITLE VI	NO
RACT	NO
SIP	YES

**NOTES:**

**PSD** Prevention of Significant Deterioration (40 CFR 52, 6 NYCRR 231-7, 231-8) - requirements which pertain to major stationary sources located in areas which are in attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

**NSR** New Source Review (6 NYCRR 231-5, 231-6) - requirements which pertain to major stationary sources located in areas which are in non-attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

**NESHAP** National Emission Standards for Hazardous Air Pollutants (40 CFR 61, 6 NYCRR 200.10) - contaminant and source specific emission standards established prior to the Clean Air Act Amendments of 1990 (CAAA) which were developed for 9 air contaminants (inorganic arsenic, radon, benzene, vinyl chloride, asbestos, mercury, beryllium, radionuclides, and volatile HAP's).

**MACT** Maximum Achievable Control Technology (40 CFR 63, 6 NYCRR 200.10) - contaminant and source specific emission standards established by the 1990 CAAA. Under Section 112 of the CAAA, the US EPA is required to develop and promulgate emissions standards for new and existing sources. The standards are to be based on the best demonstrated control technology and practices in the regulated industry, otherwise known as MACT. The corresponding regulations apply to specific source types and contaminants.

**NSPS** New Source Performance Standards (40 CFR 60, 6 NYCRR 200.10) - standards of performance for specific stationary source categories developed by the US EPA under Section 111 of the CAAA. The standards apply only to those stationary sources which have been constructed or modified after the regulations have been proposed by publication in the Federal Register and only to the specific contaminant(s) listed in the regulation.

**Title IV** Acid Rain Control Program (40 CFR 72 thru 78, 6 NYCRR 201-6) - regulations which mandate the implementation of the acid rain control program for large stationary combustion facilities.



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Title VI Stratospheric Ozone Protection (40 CFR 82, Subpart A thru G, 6 NYCRR 200.10) - federal requirements that apply to sources which use a minimum quantity of CFC's (chlorofluorocarbons), HCFC's (hydrofluorocarbons) or other ozone depleting substances or regulated substitute substances in equipment such as air conditioners, refrigeration equipment or motor vehicle air conditioners or appliances.

RACT Reasonably Available Control Technology (6 NYCRR Parts 212.10, 226, 227-2, 228, 229, 230, 232, 233, 234, 235, 236) - the lowest emission limit that a specific source is capable of meeting by application of control technology that is reasonably available, considering technological and economic feasibility. RACT is a control strategy used to limit emissions of VOC's and NOx for the purpose of attaining the air quality standard for ozone. The term as it is used in the above table refers to those state air pollution control regulations which specifically regulate VOC and NOx emissions.

SIP State Implementation Plan (40 CFR 52, Subpart HH, 6 NYCRR 200.10) - as per the CAAA, all states are empowered and required to devise the specific combination of controls that, when implemented, will bring about attainment of ambient air quality standards established by the federal government and the individual state. This specific combination of measures is referred to as the SIP. The term here refers to those state regulations that are approved to be included in the SIP and thus are considered federally enforceable.

**Compliance Status**

Facility is in compliance with all requirements.

**SIC Codes**

SIC or Standard Industrial Classification code is an industrial code developed by the federal Office of Management and Budget for use, among other things, in the classification of establishments by the type of activity in which they are engaged. Each operating establishment is assigned an industry code on the basis of its primary activity, which is determined by its principal product or group of products produced or distributed, or services rendered. Larger facilities typically have more than one SIC code.

**SIC Code**

**Description**

8221

COLLEGES AND UNIVERSITIES, NEC

**SCC Codes**

SCC or Source Classification Code is a code developed and used" by the USEPA to categorize processes which result in air emissions for the purpose of assessing emission factor information.Each SCC represents

a unique process or function within a source category logically associated with a point of air pollution emissions. Any operation that causes air pollution can be represented by one or more SCC's.

**SCC Code**

**Description**

1-01-009-03

EXTERNAL COMBUSTION BOILERS - ELECTRIC GENERATION  
ELECTRIC UTILITY BOILER - WOOD/BARK WASTE Wood-Fired Boiler

1-02-009-06

EXTERNAL COMBUSTION BOILERS - INDUSTRIAL INDUSTRIAL BOILER - WOOD/BARK WASTE Wood-Fired Boiler ( < 50,000 LB Steam)



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1-03-002-09	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - BITUMINOUS COAL SPREADER STOKER (BITUMINOUS COAL)
1-03-006-01	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - NATURAL GAS Over 100 MMBtu/Hr
1-03-006-02	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - NATURAL GAS 10-100 MMBtu/Hr
1-03-009-01	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - WOOD/BARK WASTE Bark-Fired Boiler
1-03-009-03	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - WOOD/BARK WASTE Wood-Fired Boiler
1-03-010-02	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - LIQUEFIED PETROLEUM GAS (LPG) Propane
1-05-002-06	EXTERNAL COMBUSTION BOILERS - SPACE HEATERS COMMERCIAL/INSTITUTIONAL SPACE HEATER Natural Gas
3-01-017-08	CHEMICAL MANUFACTURING CHEMICAL MANUFACTURING - PHOSPHORIC ACID:THERMAL PROCESS Absorber w/ ESP

### Facility Emissions Summary

In the following table, the CAS No. or Chemical Abstract Service code is an identifier assigned to every chemical compound. [NOTE: Certain CAS No.'s contain a 'NY' designation within them. These are not true CAS No.'s but rather an identification which has been developed by the department to identify groups of contaminants which ordinary CAS No.'s do not do. As an example, volatile organic compounds or VOC's are identified collectively by the NY CAS No. 0NY998-00-0.] The PTE refers to the Potential to Emit. This is defined as the maximum capacity of a facility or air contaminant source to emit any air contaminant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or air contamination source to emit any air contaminant, including air pollution control equipment and/or restrictions on the hours of operation, or on the type or amount or material combusted, stored, or processed, shall be treated as part of the design only if the limitation is contained in federally enforceable permit conditions. The PTE Range represents an emission range for a contaminant. Any PTE quantity that is displayed represents a facility-wide emission cap or limitation for that contaminant. If no PTE quantity is displayed, the PTE Range is provided to indicate the approximate magnitude of facility-wide emissions for the specified contaminant in terms of tons per year (tpy). The term 'HAP' refers to any of the hazardous air pollutants listed in section 112(b) of the Clean Air Act Amendments of 1990. Total emissions of all hazardous air pollutants are listed under the special NY CAS No. 0NY100-00-0. In addition, each individual hazardous air pollutant is also listed under its own specific CAS No. and is identified in the list below by the (HAP) designation.

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Cas No.	Contaminant Name	PTE	
		lbs/yr	Range
0NY750-00-0	CARBON DIOXIDE EQUIVALENTS		>= 100,000 tpy
000630-08-0	CARBON MONOXIDE		>= 50 tpy but < 100 tpy
007647-01-0	HYDROGEN CHLORIDE	19000	
007439-92-1	LEAD		> 0 but < 10 tpy
0NY210-00-0	OXIDES OF NITROGEN	190000	
0NY075-00-0	PARTICULATES		>= 250 tpy but < 75,000 tpy
0NY075-02-5	PM 2.5		>= 25 tpy but < 40 tpy
0NY075-00-5	PM-10		>= 250 tpy but < 75,000 tpy
007446-09-5	SULFUR DIOXIDE		>= 250 tpy but < 75,000 tpy
0NY100-00-0	TOTAL HAP		>= 2.5 tpy but < 10 tpy
0NY998-00-0	VOC		>= 100 tpy but < 250 tpy

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

**Item A: Emergency Defense - 6 NYCRR 201-1.5**

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

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

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

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

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

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applicable requirement.

**Item B: Public Access to Recordkeeping for Title V Facilities - 6 NYCRR 201-1.10(b)**

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

**Item C: Timely Application for the Renewal of Title V Permits -6 NYCRR Part 201-6.2(a)(4)**

Owners and/or operators of facilities having an issued Title V permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.

**Item D: Certification by a Responsible Official - 6 NYCRR Part 201-6.2(d)(12)**

Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official. This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

**Item E: Requirement to Comply With All Conditions - 6 NYCRR Part 201-6.4(a)(2)**

The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

**Item F: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR Part 201-6.4(a)(3)**

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

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

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

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

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

**Item I: Severability - 6 NYCRR Part 201-6.4(a)(9)**

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



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**Item J: Permit Shield - 6 NYCRR Part 201-6.4(g)**

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

- i. The ability of the Department to seek to bring suit on behalf of the State of New York, or the Administrator to seek to bring suit on behalf of the United States, to immediately restrain any person causing or contributing to pollution presenting an imminent and substantial endangerment to public health, welfare or the environment to stop the emission of air pollutants causing or contributing to such pollution;
- ii. The liability of a permittee of the Title V facility for any violation of applicable requirements prior to or at the time of permit issuance;
- iii. The applicable requirements of Title IV of the Act;
- iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

**Item K: Reopening for Cause - 6 NYCRR Part 201-6.4(i)**

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

- i. If additional applicable requirements under the Act become applicable where this permit's remaining term is three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 201-6.7 and Part 621.
- ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.
- iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

Proceedings to reopen and issue Title V facility permits shall follow the same



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procedures as apply to initial permit issuance but shall affect only those parts of the permit for which cause to reopen exists.

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

**Item L: Permit Exclusion - ECL 19-0305**

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

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

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

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

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

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

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

**Regulatory Analysis**

Location	Regulation	Condition	Short Description
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**Facility/EU/EP/Process/ES**

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FACILITY	ECL 19-0301	50		Powers and Duties of the Department with respect to air pollution control
FACILITY	40CFR 60-IIII	35		Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
FACILITY	40CFR 60-JJJJ	36		Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
FACILITY	40CFR 63-CCCCC	37		Gasoline Dispensing Facilities Area Source NESHAP
FACILITY	40CFR 63-JJJJJJ	38		National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources
FACILITY	40CFR 63-JJJJJJ.11200	39		Subcategories for boilers
FACILITY	40CFR 63-JJJJJJ.11201(b)	40, 41		ICI Boiler Area Source NESHAP - Management Practices
FACILITY	40CFR 63-JJJJJJ.11225(a)	42		ICI Boiler Area Source NESHAP - Notifications
FACILITY	40CFR 63-JJJJJJ.11225(b)	43		ICI Boiler Area Source NESHAP - Annual Compliance Certification Report
FACILITY	40CFR 63-JJJJJJ.11225(c)	44		ICI Boiler Area Source NESHAP - Records
FACILITY	40CFR 63-JJJJJJ.11225(d)	45		ICI Boiler Area Source NESHAP - Form of Records
FACILITY	40CFR 63-ZZZZ	46		Reciprocating Internal Combustion Engine (RICE) NESHAP
FACILITY	40CFR 68	19		Chemical accident prevention provisions
FACILITY	40CFR 82-F	20		Protection of Stratospheric Ozone - recycling and emissions reduction
FACILITY	6NYCRR 200.6	1		Acceptable ambient air quality.
FACILITY	6NYCRR 200.7	10		Maintenance of equipment.
FACILITY	6NYCRR 201-1.4	51		Unavoidable noncompliance and violations



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FACILITY	6NYCRR 201-1.7	11	Recycling and Salvage Prohibition of reintroduction of collected contaminants to the air
FACILITY	6NYCRR 201-1.8	12	
FACILITY	6NYCRR 201-3.2 (a)	13	Exempt Activities - Proof of eligibility Trivial Activities - proof of eligibility
FACILITY	6NYCRR 201-3.3 (a)	14	
FACILITY	6NYCRR 201-6	21, 48, 49	Title V Permits and the Associated Permit Conditions
FACILITY	6NYCRR 201-6.4 (a) (4)	15	General Conditions - Requirement to Provide Information
FACILITY	6NYCRR 201-6.4 (a) (7)	2	
FACILITY	6NYCRR 201-6.4 (a) (8)	16	General Conditions - Right to Inspect
FACILITY	6NYCRR 201-6.4 (c)	3	
FACILITY	6NYCRR 201-6.4 (c) (2)	4	Recordkeeping and Reporting of Compliance Monitoring Records of Monitoring, Sampling and Measurement
FACILITY	6NYCRR 201- 6.4 (c) (3) (ii)	5	
FACILITY	6NYCRR 201-6.4 (d) (4)	22	Reporting Requirements - Deviations and Noncompliance
FACILITY	6NYCRR 201-6.4 (e)	6	
FACILITY	6NYCRR 201-6.4 (f) (6)	17	Compliance Schedules - Progress Reports
FACILITY	6NYCRR 201-7	23	
FACILITY	6NYCRR 202-1.1	18	Certification Off Permit Changes Federally Enforceable Emissions Caps
FACILITY	6NYCRR 202-2.1	7	
FACILITY	6NYCRR 202-2.5	8	Required emissions tests. Emission Statements - Applicability
FACILITY	6NYCRR 211.1	26	
FACILITY	6NYCRR 215.2	9	Emission Statements - record keeping requirements. General Prohibitions - air pollution prohibited
FACILITY	6NYCRR 225-1.2	30	
FACILITY	6NYCRR 225-1.2 (c)	1 -2	Open Fires - Prohibitions Sulfur-in-Fuel Limitations
U--0023/0002A/23C	6NYCRR 227-1.2 (a) (4)	1 -6	
U--0023/0002A/23W	6NYCRR 227-1.2 (a) (4)	1 -7	Sulfur-in-Fuel Limitations
U--0023/0003A/23C	6NYCRR 227-1.2 (a) (4)	1 -9	
U--0023/0003A/23W	6NYCRR 227-1.2 (a) (4)	1 -10	Particulate Emissions Firing Solid Fuels.
U--0023/U2U3X/ESP	6NYCRR 227-1.2 (a) (4)	1 -13	
FACILITY	6NYCRR 227-1.2 (c)	32, 1 -3	Particulate Emissions Firing Solid Fuels. Alternative



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FACILITY	6NYCRR 227-1.3 (a)	1	-4	Particulate Emissions. (see narrative)
U--0023/0002A	6NYCRR 227-1.3 (a)	1	-5	Smoke Emission Limitations.
U--0023/0003A	6NYCRR 227-1.3 (a)	1	-8	Smoke Emission Limitations.
U--0023/U2U3X	6NYCRR 227-1.3 (a)	1	-11	Smoke Emission Limitations.
FACILITY	6NYCRR 231-11.2 (c)	34		Reasonable Possibility requirements for insignificant mods - greater than 50% with excluded emissions

**Applicability Discussion:**

Mandatory Requirements: The following facility-wide regulations are included in all Title V permits:

ECL 19-0301

This section of the Environmental Conservation Law establishes the powers and duties assigned to the Department with regard to administering the air pollution control program for New York State.

6 NYCRR 200.6

Acceptable ambient air quality - prohibits contravention of ambient air quality standards without mitigating measures

6 NYCRR 200.7

Anyone owning or operating an air contamination source which is equipped with an emission control device must operate the control consistent with ordinary and necessary practices, standards and procedures, as per manufacturer's specifications and keep it in a satisfactory state of maintenance and repair so that it operates effectively

6 NYCRR 201-1.4

This regulation specifies the actions and recordkeeping and reporting requirements for any violation of an applicable state enforceable emission standard that results from a necessary scheduled equipment maintenance, start-up, shutdown, malfunction or upset in the event that these are unavoidable.

6 NYCRR 201-1.7

Requires the recycle and salvage of collected air contaminants where practical

6 NYCRR 201-1.8

Prohibits the reintroduction of collected air contaminants to the outside air

6 NYCRR 201-3.2 (a)

An owner and/or operator of an exempt emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains exempt emission sources or units, 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.



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6 NYCRR 201-3.3 (a)

The owner and/or operator of a trivial emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains trivial emission sources or units subject to this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

6 NYCRR Subpart 201-6

This regulation applies to those terms and conditions which are subject to Title V permitting. It establishes the applicability criteria for Title V permits, the information to be included in all Title V permit applications as well as the permit content and terms of permit issuance. This rule also specifies the compliance, monitoring, recordkeeping, reporting, fee, and procedural requirements that need to be met to obtain a Title V permit, modify the permit and demonstrate conformity with applicable requirements as listed in the Title V permit. For permitting purposes, this rule specifies the need to identify and describe all emission units, processes and products in the permit application as well as providing the Department the authority to include this and any other information that it deems necessary to determine the compliance status of the facility.

6 NYCRR 201-6.4 (a) (4)

This mandatory requirement applies to all Title V facilities. It requires the permittee to provide information that the Department may request in writing, within a reasonable time, in order to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. The request may include copies of records required to be kept by the permit.

6 NYCRR 201-6.4 (a) (7)

This is a mandatory condition that requires the owner or operator of a facility subject to Title V requirements to pay all applicable fees associated with the emissions from their facility.

6 NYCRR 201-6.4 (a) (8)

This is a mandatory condition for all facilities subject to Title V requirements. It allows the Department to inspect the facility to determine compliance with this permit, including copying records, sampling and monitoring, as necessary.

6 NYCRR 201-6.4 (c)

This requirement specifies, in general terms, what information must be contained in any required compliance monitoring records and reports. This includes the date, time and place of any sampling, measurements and analyses; who performed the analyses; analytical techniques and methods used as well as any required QA/QC procedures; results of the analyses; the operating conditions at the time of sampling or measurement and the identification of any permit deviations. All such reports must also be certified by the designated responsible official of the facility.

6 NYCRR 201-6.4 (c) (2)

This requirement specifies that all compliance monitoring and recordkeeping is to be conducted according to the terms and conditions of the permit and follow all QA requirements found in applicable regulations. It also requires monitoring records and supporting information to be retained for at least 5 years from the time of sampling, measurement, report or application. Support information is defined as including all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

6 NYCRR 201-6.4 (c) (3) (ii)



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This regulation specifies any reporting requirements incorporated into the permit must include provisions regarding the notification and reporting of permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken.

6 NYCRR 201-6.4 (d) (5)

This condition applies to every Title V facility subject to a compliance schedule. It requires that reports, detailing the status of progress on achieving compliance with emission standards, be submitted semiannually.

6 NYCRR 201-6.4 (e)

Sets forth the general requirements for compliance certification content; specifies an annual submittal frequency; and identifies the EPA and appropriate regional office address where the reports are to be sent.

6 NYCRR 201-6.4 (f) (6)

This condition allows changes to be made at the facility, without modifying the permit, provided the changes do not cause an emission limit contained in this permit to be exceeded. The owner or operator of the facility must notify the Department of the change. It is applicable to all Title V permits which may be subject to an off permit change.

6 NYCRR 202-1.1

This regulation allows the department the discretion to require an emission test for the purpose of determining compliance. Furthermore, the cost of the test, including the preparation of the report are to be borne by the owner/operator of the source.

6 NYCRR 202-2.1

Requires that emission statements shall be submitted on or before April 15th each year for emissions of the previous calENDar year.

6 NYCRR 202-2.5

This rule specifies that each facility required to submit an emission statement must retain a copy of the statement and supporting documentation for at least 5 years and must make the information available to department representatives.

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.

40 CFR Part 68

This Part lists the regulated substances and there applicability thresholds and sets the requirements for stationary sources concerning the prevention of accidental releases of these substances.

40 CFR Part 82, Subpart F

Subpart F requires the reduction of emissions of class I and class II refrigerants to the lowest achievable level during the service, maintenance, repair, and disposal of appliances in accordance with section 608 of the Clean Air Act AmENDments of 1990. This subpart applies to any person servicing, maintaining, or repairing appliances except for motor vehicle air conditioners. It also applies to persons disposing of appliances, including motor vehicle air conditioners, refrigerant reclaimers, appliance owners, and manufacturers of appliances and recycling and recovery equipment. Those individuals, operations, or activities affected by this rule, may be required to comply with specified disposal, recycling, or recovery practices, leak repair practices, recordkeeping and/or technician certification requirements.



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**Facility Specific Requirements**

In addition to Title V, SUNY AT BINGHAMTON has been determined to be subject to the following regulations:

40 CFR 63.11200

The high temperature hot water generators are designated as belonging to the “biomass subcategory” in 40 CFR Part 63, Subpart JJJJJ. The biomass subcategory includes any boiler that burns at least 15 percent biomass on an annual heat input basis. “Annual heat input basis” means the heat input for the 12 months preceding the compliance demonstration. For purposes of this condition, in order to be classified as a biomass subcategory boiler, each hot water generator must combust at least 15 percent biomass on a heat input basis for each calendar year.

1. The owner or operator shall monitor and record, on a monthly basis, the amount of each type of fuel burned in each hot water generator, on a Btu-heat input basis.
2. For each annual calendar year period (January 1 to December 31), the owner or operator shall compute the amount of heat input contributed to each hot water generator from biomass, as defined in 40 CFR Part 63, Subpart JJJJJ.
3. On an annual basis, the owner or operator shall submit, in his or her annual certification, information documenting whether each hot water generator continues to qualify as a biomass unit.

40 CFR 63.11201 (b)

These conditions state the management practices that are required for new and existing affected sources.

40 CFR 63.11225 (a)

This condition states what notifications must be submitted.

40 CFR 63.11225 (b)

This condition states what must be submitted in the annual compliance certification report.

40 CFR 63.11225 (c)

This condition states what records must be kept.



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40 CFR 63.11225 (d)

This condition states what form the records must be kept.

40 CFR Part 60, Subpart IIII

The facility has a large campus with many buildings. To insure each engine is compliant, a system to manage these engines is essential. The DEC is requiring the owner or operator to inventory, track and assess compliance on an annual basis.

40 CFR Part 60, Subpart JJJJ

The University owns and operates numerous emergency generators. This condition requires the University to comply with 40 CFR Part 60, Subpart JJJJ.

40 CFR Part 63, Subpart CCCCCC

The University owns and operates a gasloline dispensing facility that is subject to 40 CFR Part 63, Subpart CCCCCC. This condition requires the owner or operator to minimize spills.

40 CFR Part 63, Subpart JJJJJJ

This regulation covers facilities that own or operate an industrial, commercial, or institutional boiler as defined in §63.11237 that is located at, or is part of, an area source of hazardous air pollutants (HAP), as defined in §63.2, except as specified in §63.11195.

This condition requires Binghamton University to conduct tune ups of the biomass fired boilers.

40 CFR Part 63, Subpart ZZZZ

The facility has a large campus with many buildings. To insure each engine is compliant, a system to manage these engines is essential. The DEC is requiring the owner or operator to inventory, track and assess compliance on an annual basis.

6 NYCRR 201-6.4 (a) (4)

This mandatory requirement applies to all Title V facilities. It requires the permittee to provide any information that the Department may request in writing, within a reasonable time, in order to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. The request may include copies of records required to be kept by the permit.

6 NYCRR 201-6.4 (a) (7)

This is a mandatory condition that requires the owner or operator of a facility subject to Title V requirements to pay all applicable fees associated with the emissions from their facility.



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6 NYCRR 201-6.4 (a) (8)

This is a mandatory condition for all facilities subject to Title V requirements. It allows the Department to inspect the facility to determine compliance with this permit, including copying records, sampling and monitoring, as necessary.

6 NYCRR 201-6.4 (c)

This requirement specifies, in general terms, what information must be contained in any required compliance monitoring records and reports. This includes the date, time and place of any sampling, measurements and analyses; who performed the analyses; analytical techniques and methods used as well as any required QA/QC procedures; results of the analyses; the operating conditions at the time of sampling or measurement and the identification of any permit deviations. All such reports must also be certified by the designated responsible official of the facility.

6 NYCRR 201-6.4 (c) (2)

This requirement applies to all facilities subject to Title V requirements and specifies that all compliance monitoring and recordkeeping is to be conducted according to the terms and conditions of the permit and follow all QA requirements found in applicable regulations. It also requires monitoring records and supporting information to be retained for at least 5 years from the time of sampling, measurement, report or application. Support information is defined as including all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

6 NYCRR 201-6.4 (c) (3) (ii)

This regulation specifies any reporting requirements incorporated into the permit must include provisions regarding the notification and reporting of permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken.

6 NYCRR 201-6.4 (d) (4)

This condition applies to every Title V facility subject to a compliance schedule. It requires that reports, detailing the status of progress on achieving compliance with emission standards, be submitted semiannually.

6 NYCRR 201-6.4 (f) (6)

This condition allows changes to be made at the facility, without modifying the permit, provided the changes do not cause an emission limit contained in this permit to be exceeded. The owner or operator of the facility must notify the Department of the change. It is applicable to all Title V permits which may be subject to an off permit change.



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6 NYCRR 211.1

This regulation requires that 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.

6 NYCRR 225-1.2

This section of the regulation establishes sulfur-in-fuel limitations for coal, residual oil, distillate oil, and waste oil.

6 NYCRR 225-1.2 (c)

Sulfur-in-fuel limitations for solid fuel fired facilities on or after July 1, 2014.

6 NYCRR 227-1.2 (a) (4)

This regulation establishes a particulate emission limit in terms of lbs per mmBtu of heat input for stationary combustion units which fire solid fuels at variable sizes of heat input (mmBtu/hr).

6 NYCRR 227-1.2 (c)

Sources which are applicable to the Federal 40 CFR 60 NSPS standards for particulates may not petition for an alternative particulate limit.

6 NYCRR 227-1.3 (a)

This regulation prohibits any person from operating a stationary combustion installation which emits smoke equal to or greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.

6 NYCRR 231-11.2 (c)

This citation lists the record keeping requirements for insignificant modifications that are greater than 50% of the threshold including excluded emissions as defined in 231-4.1(b)(40)(i)(c) of this Part.

SUNY Binghamton has undertaken a program to repair the existing high temperature hot water generators; to modify the ductwork from each HTHWG by adding a flyash hopper; and to modify the bottom ash handling system.

These changes were reviewed by the DEC and were determined to be not subject to the DEC's Prevention of Significant Deterioration rules (6 NYCRR 231-8) because future actual emissions will not exceed prior actual emissions. The project is subject to 6 NYCRR 231-11.2(c).

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6 NYCRR Subpart 201-7

Emissions of particulate matter while combusting wood in Units 2 and/or 3, after installation of the ESP, are limited to 0.25 pounds/mmBtu. This limitation renders the facility-wide potential annual particulate emissions to less than 100 tons per year.

**Compliance Certification**

**Summary of monitoring activities at SUNY AT BINGHAMTON:**

<b>Location Facility/EU/EP/Process/ES</b>	<b>Cond No.</b>	<b>Type of Monitoring</b>
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FACILITY	35	record keeping/maintenance procedures
FACILITY	36	record keeping/maintenance procedures
FACILITY	37	record keeping/maintenance procedures
FACILITY	38	record keeping/maintenance procedures
FACILITY	39	monitoring of process or control device parameters as surrogate
FACILITY	40	record keeping/maintenance procedures
FACILITY	41	record keeping/maintenance procedures
FACILITY	42	record keeping/maintenance procedures
FACILITY	43	record keeping/maintenance procedures
FACILITY	44	record keeping/maintenance procedures
FACILITY	45	record keeping/maintenance procedures
FACILITY	46	record keeping/maintenance procedures
FACILITY	5	record keeping/maintenance procedures
FACILITY	6	record keeping/maintenance procedures
FACILITY	1-1	monitoring of process or control device parameters as surrogate
FACILITY	24	monitoring of process or control device parameters as surrogate
U--0023/U2U3X/ESP	1-12	intermittent emission testing
FACILITY	7	record keeping/maintenance procedures
FACILITY	30	work practice involving specific operations
FACILITY	1-2	work practice involving specific operations
U--0023/0002A/23C	1-6	intermittent emission testing
U--0023/0002A/23W	1-7	intermittent emission testing
U--0023/0003A/23C	1-9	intermittent emission testing
U--0023/0003A/23W	1-10	intermittent emission testing
U--0023/U2U3X/ESP	1-13	record keeping/maintenance procedures
FACILITY	1-3	intermittent emission testing
FACILITY	32	intermittent emission testing
FACILITY	1-4	monitoring of process or control device parameters as surrogate
U--0023/0002A	1-5	monitoring of process or control device parameters as surrogate
U--0023/0003A	1-8	monitoring of process or control device parameters as surrogate
U--0023/U2U3X	1-11	monitoring of process or control device parameters



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FACILITY	34	as surrogate record keeping/maintenance procedures
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**Basis for Monitoring**

The facility is required to monitor emissions of opacity and fuel sulfur content.