



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

**IDENTIFICATION INFORMATION**

Permit Type: Air Title V Facility  
Permit ID: 5-0928-00017/00291  
Mod 0 Effective Date: 06/23/2008 Expiration Date: 06/22/2013  
  
Mod 1 Effective Date: 10/31/2008 Expiration Date: No expiration date.  
  
Mod 2 Effective Date: Expiration Date:

Permit Issued To: WYETH PHARMACEUTICALS INC  
64 MAPLE ST  
ROUSES POINT, NY 12979-1424

Facility: WYETH PHARMACEUTICALS  
64 MAPLE ST  
ROUSES POINT, NY 12979

Contact: MARK A MCCULLOUGH  
WYETH PHARMACEUTICALS  
64 MAPLE ST  
ROUSES POINT, NY 12979  
(518) 297-1086

**Description:**

Wyeth Pharmaceuticals, Incorporated is a pharmaceutical manufacturing facility located in Clinton County, New York, Town of Champlain. The facility is primarily engaged in the formulation and packaging of solid dosage pharmaceuticals for human and veterinary use. The majority of products are finished in their final dosage forms. The facility also manufactures pharmaceutical products by chemical synthesis and extraction, and conducts research and development activities.

Emissions of NO<sub>x</sub> and SO<sub>2</sub> from the facility are each capped at 99 tons per year. Therefore, the control requirements contained in 6 NYCRR Subpart 227-2, Reasonably Available Control Technology (RACT) for NO<sub>x</sub>, and 40 CFR 52, Federal Prevention of Significant Deterioration of Air Quality (PSD) do not presently apply to sources at the facility. In addition, emissions of Volatile Organic Compounds (VOCs) from the facility are capped at 49 tons per year, such that the VOC RACT provisions of 6 NYCRR Section 212.10, as well as VOC RACT provisions in other rules (e.g., 6 NYCRR Parts 228 and 233) which are triggered by a facility-wide potential to emit (PTE) VOCs over 50 tons per year do not apply. However, certain VOC RACT requirements are triggered when the facility's PTE for VOCs is over 10 tons per year. Emissions of Hazardous Air Pollutants (HAPs) from the facility are capped at 24.5 tons per year for combined HAPs and 9.5 tons per year for speciated HAPs, such that MACT standards (i.e. 40 CFR 63 subpart GGG) do not apply at the facility.

Emission Unit No. 0-00001 - This Emission Unit consists of four (4) steam generating boilers each with a maximum rated heat input capacity greater than 50 million Btu per hour



and equal to or less than 100 million Btu per hour. Each existing unit has the capability to be fired with natural gas or No. 2 fuel oil (PR Nos. 001 and 01C). Natural gas is the primary fuel with No. 2 fuel oil as backup. Three boilers - ES Nos. 00074, 00204 and 00333, are subject to 40 CFR 60, Subpart Dc at 73, 84.5 and 98 million Btu/hr heat input capacity, respectively. The fourth boiler (ES No. 00001) predates 40 CFR 60, Subpart Dc and has a heat input capacity of 55.9 million Btu/hr. This boiler is regulated under 6 NYCRR Subpart 227-1. Each of the boilers has its own stack (EP Nos. 00001, 00100, 00149 and 00172).

Emission Unit No. 0-00002 - This Emission Unit consists of the Chemical Pilot Plant production equipment exhaust system (PEES). This system includes localized equipment pickups, primarily used to reduce worker exposure. Synthesized pharmaceutical manufacturing processes performed for production purposes under this emission unit are regulated under 6 NYCRR Part 233 for control of VOCs. Activities performed under this emission unit which are not covered by Part 233 are regulated primarily under 6 NYCRR Part 212.

Emission Unit No. 0-00003 - This covers the Main Plant production equipment exhaust system (PEES). This Emission Unit consists of localized equipment pickups, primarily used to reduce worker exposure. It also contains the House Vacuum system utilized to clean production area floors and equipment. Emissions from this emission unit are regulated primarily under 6 NYCRR Part 212.

Emission Unit No. 0-00004 - This Emission Unit consists of a dust collection system that ventilates room and equipment exhausts in the solids dosage manufacturing area. The dust collection system is controlled by a multi-chamber fabric filter (ES No. 00124) and vented through Emission Point No. 00106. Emissions from this emission unit are regulated primarily under 6 NYCRR Part 212.

Emission Unit No. 0-00005 - This Emission Unit consists of dryers and ovens utilized in the drying of pharmaceutical products. No synthesized pharmaceutical manufacturing processes are performed in this equipment. Therefore, emissions from this emission unit are regulated primarily under 6 NYCRR Part 212.

Emission Unit Nos. 0-00006 - This Emission Unit consists of equipment utilized in the sealing, coating, and polishing of pharmaceutical tablets. No synthesized pharmaceutical manufacturing processes are performed in this equipment. Emissions from these emission units are regulated primarily under 6 NYCRR Part 212.

Emission Unit No. 0-00008 - This Emission Unit consists of five (5) Chemical Bulk Storage Tanks storing one of the following chemicals: acetone; methanol; isopropanol; or toluene. This unit also contains three (3) hazardous waste tanks which store waste acetone and mixed solvents. Since these tanks may, at times, be associated with synthesized pharmaceutical manufacturing processes, the control requirements for storage tanks and the leak requirements under 6 NYCRR Part 233 apply. In addition, these tanks are subject to a single recordkeeping requirement under 40 CFR 60, Subpart Kb [60.116b(b)], but none of the other requirements contained in that regulation.

Emission Unit No. 0-00009 - This Emission Unit covers sources associated with the Chemical Development Pilot Plant. It consists of reactor series with both atmospheric and vacuum operations, centrifuge, and tray dryers vented to 1 of 4 types of vapor condensers and/or a process scrubber. Emissions from all processes (PR ID's 017, 17B, 17C, 021 and 21B) are vented primarily through the GEP stack (EP 00144). However, process scrubbers



(ES Nos. 00325-00330) may, in some instances be vented through individual non-GEP stacks (EP Nos. 00062, 00063, 00073, 00091, 00093 and 00096) provided they meet all applicable regulatory requirements while doing so. The unit also contains a wastewater treatment system consisting of pH neutralization and steam stripping unit operations emitted through EP No. 00144. The sources in this emission unit are regulated under 6 NYCRR Parts 200, 212 and 233. The applicable requirements depend primarily upon whether the equipment is being used to produce pharmaceutical products for research and development purposes or commercial sale, as well as whether or not the product is being made using chemical synthesis.

Emission Unit No. 0-00011 - This Emission Unit consists of Chemical Pilot Plant Miscellaneous Sources. At this time, it consists of only one emission source; a Heat Transfer Media Expansion Tank. It is regulated under applicable provisions of 6 NYCRR Part 212.

Emission Unit No. 0-00013 - This Emission Unit consists of existing pharmaceutical manufacturing processes that are vented to a regenerative thermal oxidizer (RTO) and scrubber system. The RTO / scrubber system consists of two RTOs that are used alternately or simultaneously to reduce emissions. Each RTO is equipped with a caustic scrubber and exhaust through a common exhaust stack (EP 00175). Process emissions and room air exhaust from affected sources are diverted to a rooftop header feeding the RTOs during processes which emit VOCs and HAPs. Air streams containing particulate matter pass through dedicated dust collectors and HEPA filters prior to entering the RTO header. During aqueous (non-solvent) granulation process emissions are exhausted through other emission points and not to the RTO header. This unit is regulated under 6 NYCRR Parts 200 and 212.

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:           MICHAEL J MCMURRAY  
  NYSDEC  
  PO BOX 296  
  RAY BROOK, NY 12977-0296

Authorized Signature: \_\_\_\_\_ Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_



### Notification of Other State Permittee Obligations

**Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification**

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

**Item B: Permittee's Contractors to Comply with Permit**

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

**Item C: Permittee Responsible for Obtaining Other Required Permits**

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

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

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



## **LIST OF CONDITIONS**

### **DEC GENERAL CONDITIONS**

#### **General Provisions**

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

#### **Facility Level**

- Submission of application for permit modification or renewal-REGION 5  
SUBOFFICE - WARRENSBURG



**DEC GENERAL CONDITIONS**

**\*\*\*\* General Provisions \*\*\*\***

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

**GENERAL CONDITIONS - Apply to ALL Authorized Permits.**

**Condition 1: Facility Inspection by the Department**

**Applicable State Requirement: ECL 19-0305**

**Item 1.1:**

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

**Item 1.2:**

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

**Item 1.3:**

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

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

**Applicable State Requirement: ECL 3-0301.2(m)**

**Item 2.1:**

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

**Condition 3: Applications for permit renewals, modifications and transfers**

**Applicable State Requirement: 6NYCRR 621.11**

**Item 3.1:**

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

**Item 3.2:**

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

**Item 3.3:**



Permits are transferrable with the approval of the department unless specifically prohibited by the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

**Condition 4: Permit modifications, suspensions or revocations by the Department**  
**Applicable State Requirement: 6NYCRR 621.13**

**Item 4.1:**

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

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

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

**Condition 5: Submission of application for permit modification or renewal-REGION 5**  
**SUBOFFICE - WARRENSBURG**  
**Applicable State Requirement: 6NYCRR 621.6(a)**

**Item 5.1:**

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

NYSDEC Regional Permit Administrator  
Region 5 Sub-office  
Division of Environmental Permits  
232 Golf Course Road, PO Box 220  
Warrensburg, NY 12885-0220  
(518) 623-1281



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

**ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT**

**IDENTIFICATION INFORMATION**

Permit Issued To: WYETH PHARMACEUTICALS INC  
64 MAPLE ST  
ROUSES POINT, NY 12979-1424

Facility: WYETH PHARMACEUTICALS  
64 MAPLE ST  
ROUSES POINT, NY 12979

Authorized Activity By Standard Industrial Classification Code:  
2833 - MEDICINALS AND BOTANICALS  
2834 - PHARMACEUTICAL PREPARATIONS  
2835 - DIAGNOSTIC SUBSTANCES  
2836 - BIOLOGICAL PRODUCTS, EXCEPT DIAGNOSTIC  
2842 - POLISHES AND SANITATION GOODS

Permit Effective Date:

Permit Expiration Date:



## LIST OF CONDITIONS

### DEC GENERAL CONDITIONS

#### General Provisions

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

#### Facility Level

- Submission of application for permit modification or renewal-REGION 5 SUBOFFICE - WARRENSBURG

### FEDERALLY ENFORCEABLE CONDITIONS

#### Facility Level

- 2-1 6NYCRR 200.6: Compliance Certification
  - 22 : Compliance Certification
  - 26 6NYCRR 201-6: Emission Unit Definition
  - 29 6NYCRR 201-7: Facility Permissible Emissions
- #### Emission Unit Level
- 51 6NYCRR 201-6: Emission Point Definition By Emission Unit
  - 52 6NYCRR 201-6: Process Definition By Emission Unit

#### EU=0-00009

- 2-2 6NYCRR 200.6: Compliance Certification
- 2-6 6NYCRR 200.6: Compliance Certification
- 2-7 6NYCRR 200.6: Compliance Certification
- 2-8 6NYCRR 200.6: Compliance Certification
- 2-9 6NYCRR 200.6: Compliance Certification
- 2-10 6NYCRR 200.6: Compliance Certification
- 2-3 6NYCRR 212.4(a): Compliance Certification
- 2-4 6NYCRR 212.4(a): Compliance Certification
- 2-5 6NYCRR 212.4(a): Compliance Certification
- 72 : Compliance Certification
- 73 : Compliance Certification
- 74 : Compliance Certification
- 75 : Compliance Certification
- 76 : Compliance Certification
- 77 : Compliance Certification
- 78 : Compliance Certification

#### EU=0-00009,EP=00144

- 82 : Compliance Certification
- 83 : Compliance Certification
- 84 : Compliance Certification

### STATE ONLY ENFORCEABLE CONDITIONS

#### Facility Level

- 90 ECL 19-0301: Contaminant List

#### Emission Unit Level



**EU=0-00009**

- 2-11 6NYCRR 212.4(a): Compliance Demonstration
- 2-12 6NYCRR 212.4(a): Compliance Demonstration
- 93 : Compliance Demonstration
- 94 : Compliance Demonstration



**FEDERALLY ENFORCEABLE CONDITIONS**

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

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

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

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

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

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

(1) An emergency occurred and that the facility owner and/or

operator can identify the cause(s) of the emergency;

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

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

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

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

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

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

**Item B: Public Access to Recordkeeping for Title V Facilities - 6NYCRR Part 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 6NYCRR 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 201-6.3(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 201-6.3(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 201-6.5(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 201-6.5(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 Part 201-6.5(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 Part 201-6.5(a)(6)**  
This permit does not convey any property rights of any sort or any exclusive privilege.
- Item I: Severability - 6 NYCRR Part 201-6.5(a)(9)**



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

**Item J: Permit Shield - 6 NYCRR Part 201-6.5(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 201-6.5(i)**

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

- i. If additional applicable requirements under the Act become applicable where this permit's remaining term is three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the



effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 201-6.7 and Part 621.

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

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

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

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

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

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

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



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

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

**The following conditions are subject to annual compliance certification requirements for Title V permits only.**

**Condition 2-1: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement: 6NYCRR 200.6**

**Item 2-1.1:**

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

Emission Unit: 0-00009	Emission Point: 00062
Emission Unit: 0-00009	Emission Point: 00063
Emission Unit: 0-00009	Emission Point: 00073
Emission Unit: 0-00009	Emission Point: 00091
Emission Unit: 0-00009	Emission Point: 00093
Emission Unit: 0-00009	Emission Point: 00096

**Item 2-1.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To mitigate ambient impacts for contaminants listed in Appendix C, version 11-21-08, as controlled by scrubbers (ES Nos. 00325-000330), the owner or operator, for a given contaminant, shall vent no more than two of the scrubbers through the above listed non-GEP stacks at any time. Venting through non-GEP stacks is permitted only for contaminants not identified in Appendix C as restricted to the GEP stack (EP-00144) only and when there are safety concerns with combining contaminants in the GEP stack. In addition, owner or operator must comply with restrictions



on simultaneous operations specified in Appendix C and in other conditions of this permit.

Compliance with these requirements shall be demonstrated through record keeping. A written record shall be maintained for each unit process controlled by scrubbers, identifying the contaminants, emission point(s) used and the date and time of each batch.

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 22: Compliance Certification**  
**Effective between the dates of 06/23/2008 and Permit Expiration Date**

**Applicable Federal Requirement:**

**Expired by Mod 2**

**Item 22.1:**

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000067-66-3	CHLOROFORM
CAS No: 007726-95-6	BROMINE
CAS No: 010294-34-5	BORANE, TRICHLORO

**Item 22.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To prevent potential short-term ambient impact problems, a unit process using Boron Trichloride (CAS #10294-34-5), Chloroform (CAS #00067-66-3) or Bromine (CAS #07726-95-6) shall not be run simultaneously with any other unit process using Boron Trichloride, Chloroform or Bromine, respectively. A record shall be maintained of each unit process run using each of these contaminants and the time period during which it was run.

Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL CHANGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2008.

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

**Condition 26: Emission Unit Definition**  
**Effective between the dates of 06/23/2008 and Permit Expiration Date**



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

**Item 26.1(From Mod 2):**

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

Emission Unit: 0-00009

Emission Unit Description:

Chemical Pilot Plant process equipment sources - This Emission Unit consists of reactor series' with both atmospheric and vacuum operations, centrifuge, and tray dryers vented to 1 of 4 types of vapor condensers and/or a process scrubber. Emissions from all processes (PR ID's 017, 17B, 17C, 021 and 21B) are vented primarily through the GEP stack (EP 00144). However, process scrubbers (ES Nos. 00325-00330) may, in some instances be vented through individual non-GEP stacks (EP Nos. 00062, 00063, 00073, 00091, 00093 and 00096) provided they meet all applicable regulatory requirements while doing so. The unit also contains a new wastewater treatment system consisting of pH neutralization and steam stripping unit operations emitted through EP No. 00144.

Building(s): 23  
26  
31

**Item 26.2(From Mod 0):**

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

Emission Unit: 0-00001

Emission Unit Description:

Facility boilers - Emission Unit consists of four (4) steam generating boilers each with a maximum rated heat input capacity greater than 50 million Btu per hour and equal to or less than 100 million btu per hour. Each has the capability to be fired with natural gas or No. 2 fuel oil (PR Nos. 001 and 01C). Natural gas is the primary fuel with No. 2 fuel oil as backup. Three are subject to 40 CFR 60, Subpart Dc - ES Nos. 00074, 00204 and 00333 at 73, 84.5 and 98 million Btu/hr heat input capacity, respectively. The fourth boiler (ES No. 00001) predates 40 CFR 60, Subpart Dc and has a heat input capacity of 55.9 million Btu/hr. Each of these four boilers has its own stack (EP Nos. 00100, 00149, 00172 and 00001).

Building(s): 6

**Item 26.3(From Mod 0):**

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

Emission Unit: 0-00002

Emission Unit Description:

Chemical Pilot Plant production equipment exhaust system (PEES) - This Emission Unit consists of localized equipment pickups, primarily used to reduce worker exposure.



Building(s): 16  
23

**Item 26.4(From Mod 0):**

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

Emission Unit: 0-00003

Emission Unit Description:

Main Plant production equipment exhaust system (PEES) -  
This Emission Unit consists of localized equipment pickups, primarily used to reduce worker exposure. This unit also contains the House Vacuum system utilized to clean production area floors and equipment.

Building(s): 13  
14  
15  
18  
19  
20  
21  
25  
27  
32  
35  
3AI  
4A

**Item 26.5(From Mod 0):**

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

Emission Unit: 0-00004

Emission Unit Description:

Sources tributary to Building 27 Dust Collector (EP 00106) - This Emission Unit consists of a dust collection system that ventilates room and equipment exhausts in the solids dosage manufacturing area. All of these exhausts are routed to a common dust collector.

Building(s): 19  
27

**Item 26.6(From Mod 0):**

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

Emission Unit: 0-00005

Emission Unit Description:

Air Dryers - This Emission Unit consists of dryers and ovens utilized in the drying of pharmaceutical products.

Building(s): 13  
14  
21  
32



**Item 26.7(From Mod 0):**

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

Emission Unit: 0-00006

Emission Unit Description:

Tablet Coating - This Emission Unit consists of equipment utilized in the sealing, coating, and polishing of pharmaceutical tablets.

Building(s): 14

18

21

25

27

32

**Item 26.8(From Mod 0):**

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

Emission Unit: 0-00008

Emission Unit Description:

Tank Farm - This Emission Unit consists of five (5) Chemical Bulk Storage Tanks storing one of the following chemicals: acetone; methanol; isopropanol; or toluene. This unit also contains three (3) hazardous waste tanks which store waste acetone and mixed solvents.

Building(s): TF

**Item 26.9(From Mod 0):**

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

Emission Unit: 0-00011

Emission Unit Description:

Chemical Pilot Plant Miscellaneous Sources - This Emission Unit consists of a Heat Transfer Media Expansion Tank.

Building(s): 26

**Item 26.10(From Mod 0):**

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

Emission Unit: 0-00013

Emission Unit Description:

This Emission Unit consists of existing pharmaceutical manufacturing processes which vent to a regenerative thermal oxidizer (RTO) and scrubber system. The RTO / scrubber system consists of two RTOs that are used alternately or simultaneously to reduce emissions. Each RTO is equipped with a caustic scrubber and exhaust through a common exhaust stack. Existing process emissions and room air exhaust from affected sources is diverted to a rooftop header feeding the RTOs. Air streams containing particulate matter pass through dedicated dust collectors and HEPA filters prior to entering the RTO header.



This emission unit also includes aqueous granulation processes in PAL 4 and 7. In addition to particulate emissions from fluid bed dryers (FBDs) (EPs 00188 & 00189) fugitive emissions from other granulation activities are also captured by dedicated dust collection systems. These emissions are exhausted to the atmosphere (EPs 00190 & 00191) in aqueous mode instead of being directed to the RTO.

Building(s): 36A

**Condition 29: Facility Permissible Emissions**  
**Effective between the dates of 06/23/2008 and Permit Expiration Date**

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

**Item 29.1:**

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: 000067-56-1 (From Mod 2)	PTE: 19,000 pounds
	Name: METHYL ALCOHOL	
per year	CAS No: 000075-09-2 (From Mod 2)	PTE: 19,000 pounds
	Name: DICHLOROMETHANE	
per year	CAS No: 007446-09-5 (From Mod 2)	PTE: 198,000 pounds
	Name: SULFUR DIOXIDE	
per year	CAS No: 007647-01-0 (From Mod 2)	PTE: 19,000 pounds
	Name: HYDROGEN CHLORIDE	
per year	CAS No: 0NY100-00-0 (From Mod 2)	PTE: 49,000 pounds
	Name: HAP	
per year	CAS No: 0NY210-00-0 (From Mod 2)	PTE: 198,000 pounds
	Name: OXIDES OF NITROGEN	
per year	CAS No: 0NY998-00-0 (From Mod 2)	PTE: 98,000 pounds
	Name: VOC	

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



**Condition 51: Emission Point Definition By Emission Unit  
Effective between the dates of 06/23/2008 and Permit Expiration Date**

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

**Item 51.1(From Mod 2):**

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

Emission Unit: 0-00009

Emission Point: 00062

Height (ft.): 47 Diameter (in.): 6  
NYTMN (km.): 4982.948 NYTME (km.): 628.26 Building: 23

Emission Point: 00063

Height (ft.): 47 Diameter (in.): 6  
NYTMN (km.): 4982.949 NYTME (km.): 628.264 Building: 23

Emission Point: 00073

Height (ft.): 47 Diameter (in.): 20  
NYTMN (km.): 4982.916 NYTME (km.): 628.259 Building: 23

Emission Point: 00091

Height (ft.): 52 Diameter (in.): 4  
NYTMN (km.): 4982.971 NYTME (km.): 628.273 Building: 26

Emission Point: 00093

Height (ft.): 52 Diameter (in.): 4  
NYTMN (km.): 4982.97 NYTME (km.): 628.27 Building: 26

Emission Point: 00096

Height (ft.): 52 Diameter (in.): 4  
NYTMN (km.): 4982.972 NYTME (km.): 628.279 Building: 26

Emission Point: 00144

Height (ft.): 113 Diameter (in.): 10  
NYTMN (km.): 4982.959 NYTME (km.): 628.226 Building: 31

**Item 51.2(From Mod 0):**

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

Emission Unit: 0-00001

Emission Point: 00001

Height (ft.): 55 Diameter (in.): 36  
NYTMN (km.): 4982.951 NYTME (km.): 628.594 Building: 6

Emission Point: 00100

Height (ft.): 75 Diameter (in.): 48  
NYTMN (km.): 4982.964 NYTME (km.): 628.57 Building: 6

Emission Point: 00149



Height (ft.): 75                      Diameter (in.): 60  
 NYTMN (km.): 4982.943    NYTME (km.): 628.574    Building: 6

Emission Point: 00172  
 Height (ft.): 75                      Diameter (in.): 60  
 NYTMN (km.): 4982.95    NYTME (km.): 628.559    Building: 6

**Item 51.3(From Mod 0):**

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

Emission Unit: 0-00002

Emission Point: 00033  
 Height (ft.): 43                      Diameter (in.): 36  
 NYTMN (km.): 4982.883    NYTME (km.): 628.255    Building: 16

Emission Point: 00072  
 Height (ft.): 37                      Length (in.): 48                      Width (in.): 72  
 NYTMN (km.): 4982.955    NYTME (km.): 628.277    Building: 23

Emission Point: 00110  
 Height (ft.): 46                      Length (in.): 40                      Width (in.): 44  
 NYTMN (km.): 4982.91    NYTME (km.): 628.28    Building: 23

Emission Point: 00132  
 Height (ft.): 41                      Length (in.): 11                      Width (in.): 16  
 NYTMN (km.): 4982.891    NYTME (km.): 628.258    Building: 23

Emission Point: 00179  
 Height (ft.): 58                      Diameter (in.): 20  
 NYTMN (km.): 4982.954    NYTME (km.): 628.269    Building: 23

**Item 51.4(From Mod 0):**

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

Emission Unit: 0-00003

Emission Point: 00009  
 Height (ft.): 35                      Diameter (in.): 12  
 NYTMN (km.): 4982.98    NYTME (km.): 628.555    Building: 14

Emission Point: 00014  
 Height (ft.): 29                      Diameter (in.): 8  
 NYTMN (km.): 4982.946    NYTME (km.): 628.733    Building: 4A

Emission Point: 00015  
 Height (ft.): 29                      Diameter (in.): 20  
 NYTMN (km.): 4982.946    NYTME (km.): 628.742    Building: 4A

Emission Point: 00016  
 Height (ft.): 29                      Diameter (in.): 8  
 NYTMN (km.): 4982.986    NYTME (km.): 628.554    Building: 14



Emission Point: 00017	Height (ft.): 29	Diameter (in.): 14	
	NYTMN (km.): 4982.986	NYTME (km.): 628.562	Building: 14
Emission Point: 00019	Height (ft.): 29	Diameter (in.): 36	
	NYTMN (km.): 4983.033	NYTME (km.): 628.535	Building: 13
Emission Point: 00024	Height (ft.): 22	Diameter (in.): 6	
	NYTMN (km.): 4983.043	NYTME (km.): 628.697	Building: 15
Emission Point: 00031	Height (ft.): 41	Diameter (in.): 6	
	NYTMN (km.): 4983.083	NYTME (km.): 628.606	Building: 21
Emission Point: 00082	Height (ft.): 38	Diameter (in.): 16	
	NYTMN (km.): 4982.982	NYTME (km.): 628.479	Building: 18
Emission Point: 00120	Height (ft.): 48	Diameter (in.): 10	
	NYTMN (km.): 4982.931	NYTME (km.): 628.456	Building: 27
Emission Point: 00124	Height (ft.): 50	Diameter (in.): 12	
	NYTMN (km.): 4982.912	NYTME (km.): 628.443	Building: 32
Emission Point: 00138	Height (ft.): 41	Diameter (in.): 12	
	NYTMN (km.): 4982.938	NYTME (km.): 628.697	Building: 3AI
Emission Point: 00139	Height (ft.): 41	Diameter (in.): 12	
	NYTMN (km.): 4982.947	NYTME (km.): 628.716	Building: 3AI
Emission Point: 00143	Height (ft.): 44	Diameter (in.): 4	
	NYTMN (km.): 4982.926	NYTME (km.): 628.456	Building: 27
Emission Point: 00152	Height (ft.): 48	Diameter (in.): 10	
	NYTMN (km.): 4982.908	NYTME (km.): 628.437	Building: 32
Emission Point: 00156	Height (ft.): 48	Diameter (in.): 44	
	NYTMN (km.): 4983.063	NYTME (km.): 628.46	Building: 35
Emission Point: 00157	Height (ft.): 48	Diameter (in.): 4	
	NYTMN (km.): 4983.073	NYTME (km.): 628.459	Building: 35
Emission Point: 00162			



Height (ft.): 48	Diameter (in.): 10	
NYTMN (km.): 4983.139	NYTME (km.): 628.622	Building: 21
Emission Point: 00164		
Height (ft.): 48	Diameter (in.): 10	
NYTMN (km.): 4983.14	NYTME (km.): 628.618	Building: 21
Emission Point: 00167		
Height (ft.): 48	Length (in.): 48	Width (in.): 72
NYTMN (km.): 4983.066	NYTME (km.): 628.646	Building: 21
Emission Point: 00168		
Height (ft.): 48	Diameter (in.): 4	
NYTMN (km.): 4983.075	NYTME (km.): 628.646	Building: 21
Emission Point: 00185		
Height (ft.): 37	Diameter (in.): 10	
NYTMN (km.): 4983.039	NYTME (km.): 628.494	Building: 19
Emission Point: 00186		
Height (ft.): 46	Diameter (in.): 6	
NYTMN (km.): 4983.094	NYTME (km.): 628.574	Building: 25
Emission Point: 00187		
Height (ft.): 46	Diameter (in.): 13	
NYTMN (km.): 4983.138	NYTME (km.): 628.61	Building: 21
Emission Point: 00192		
Height (ft.): 28	Diameter (in.): 12	
NYTMN (km.): 4982.78	NYTME (km.): 628.522	Building: 13
Emission Point: 00193		
Height (ft.): 28	Diameter (in.): 10	
NYTMN (km.): 4982.78	NYTME (km.): 628.52	Building: 13
Emission Point: 00194		
Height (ft.): 28	Diameter (in.): 14	
NYTMN (km.): 4982.782	NYTME (km.): 628.512	Building: 13

**Item 51.5(From Mod 0):**

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

Emission Unit: 0-00004		
Emission Point: 00106		
Height (ft.): 48	Diameter (in.): 72	
NYTMN (km.): 4982.991	NYTME (km.): 628.455	Building: 27
Emission Point: 00180		
Height (ft.): 37	Diameter (in.): 4	
NYTMN (km.): 4983.016	NYTME (km.): 628.474	Building: 19
Emission Point: 00181		



Height (ft.): 37                      Diameter (in.): 4  
 NYTMN (km.): 4983.022    NYTME (km.): 628.473    Building: 19

**Item 51.6(From Mod 0):**

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

Emission Unit: 0-00005

Emission Point: 00075  
 Height (ft.): 59                      Diameter (in.): 22  
 NYTMN (km.): 4982.992    NYTME (km.): 628.501    Building: 14

Emission Point: 00115  
 Height (ft.): 33                      Diameter (in.): 14  
 NYTMN (km.): 4982.996    NYTME (km.): 628.492    Building: 13

Emission Point: 00128  
 Height (ft.): 49                      Diameter (in.): 16  
 NYTMN (km.): 4982.908    NYTME (km.): 628.426    Building: 32

Emission Point: 00129  
 Height (ft.): 69                      Diameter (in.): 30  
 NYTMN (km.): 4982.974    NYTME (km.): 628.423    Building: 32

Emission Point: 00130  
 Height (ft.): 69                      Diameter (in.): 30  
 NYTMN (km.): 4982.967    NYTME (km.): 628.422    Building: 32

Emission Point: 00141  
 Height (ft.): 28                      Length (in.): 12                      Width (in.): 12  
 NYTMN (km.): 4982.926    NYTME (km.): 628.5                      Building: 14

Emission Point: 00165  
 Height (ft.): 46                      Diameter (in.): 16  
 NYTMN (km.): 4983.137    NYTME (km.): 628.6                      Building: 21

Emission Point: 00166  
 Height (ft.): 48                      Diameter (in.): 16  
 NYTMN (km.): 4983.107    NYTME (km.): 628.641    Building: 21

**Item 51.7(From Mod 0):**

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

Emission Unit: 0-00006

Emission Point: 00101  
 Height (ft.): 46                      Diameter (in.): 20  
 NYTMN (km.): 4982.965    NYTME (km.): 628.512    Building: 14

Emission Point: 00111  
 Height (ft.): 29                      Length (in.): 23                      Width (in.): 33  
 NYTMN (km.): 4982.912    NYTME (km.): 628.506    Building: 14



Emission Point: 00118			
Height (ft.): 68	Diameter (in.): 12		
NYTMN (km.): 4982.929	NYTME (km.): 628.47	Building: 18	
Emission Point: 00119			
Height (ft.): 68	Diameter (in.): 12		
NYTMN (km.): 4982.937	NYTME (km.): 628.47	Building: 18	
Emission Point: 00122			
Height (ft.): 53	Diameter (in.): 20		
NYTMN (km.): 4982.916	NYTME (km.): 628.442	Building: 32	
Emission Point: 00125			
Height (ft.): 44	Diameter (in.): 30		
NYTMN (km.): 4982.912	NYTME (km.): 628.435	Building: 32	
Emission Point: 00127			
Height (ft.): 54	Length (in.): 12	Width (in.): 14	
NYTMN (km.): 4982.913	NYTME (km.): 628.43	Building: 32	
Emission Point: 00147			
Height (ft.): 48	Diameter (in.): 8		
NYTMN (km.): 4982.931	NYTME (km.): 628.452	Building: 27	
Emission Point: 00148			
Height (ft.): 48	Diameter (in.): 8		
NYTMN (km.): 4982.931	NYTME (km.): 628.45	Building: 27	
Emission Point: 00150			
Height (ft.): 48	Diameter (in.): 12		
NYTMN (km.): 4982.917	NYTME (km.): 628.438	Building: 32	
Emission Point: 00151			
Height (ft.): 48	Diameter (in.): 12		
NYTMN (km.): 4982.916	NYTME (km.): 628.432	Building: 32	
Emission Point: 00158			
Height (ft.): 48	Diameter (in.): 30		
NYTMN (km.): 4983.08	NYTME (km.): 628.646	Building: 21	
Emission Point: 00160			
Height (ft.): 48	Diameter (in.): 8		
NYTMN (km.): 4983.141	NYTME (km.): 628.635	Building: 21	
Emission Point: 00161			
Height (ft.): 48	Diameter (in.): 8		
NYTMN (km.): 4983.141	NYTME (km.): 628.629	Building: 21	
Emission Point: 00163			
Height (ft.): 48	Diameter (in.): 8		
NYTMN (km.): 4983.146	NYTME (km.): 628.616	Building: 21	
Emission Point: 00173			



Height (ft.): 48	Diameter (in.): 8	
NYTMN (km.): 4983.133	NYTME (km.): 628.64	Building: 21
Emission Point: 00174		
Height (ft.): 48	Diameter (in.): 8	
NYTMN (km.): 4983.147	NYTME (km.): 628.627	Building: 21
Emission Point: 00176		
Height (ft.): 49	Diameter (in.): 16	
NYTMN (km.): 4983.151	NYTME (km.): 628.642	Building: 21
Emission Point: 00177		
Height (ft.): 48	Diameter (in.): 16	
NYTMN (km.): 4983.099	NYTME (km.): 628.56	Building: 25
Emission Point: 00178		
Height (ft.): 51	Diameter (in.): 30	
NYTMN (km.): 4983.153	NYTME (km.): 628.624	Building: 21
Emission Point: 00183		
Height (ft.): 48	Diameter (in.): 12	
NYTMN (km.): 4982.957	NYTME (km.): 628.457	Building: 27

**Item 51.8(From Mod 0):**

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

Emission Unit: 0-00008		
Emission Point: 00039		
Height (ft.): 21	Diameter (in.): 3	
NYTMN (km.): 4982.913	NYTME (km.): 628.229	Building: TF
Emission Point: 00043		
Height (ft.): 26	Diameter (in.): 3	
NYTMN (km.): 4982.922	NYTME (km.): 628.219	Building: TF
Emission Point: 00044		
Height (ft.): 26	Diameter (in.): 3	
NYTMN (km.): 4982.927	NYTME (km.): 628.235	Building: TF
Emission Point: 00045		
Height (ft.): 26	Diameter (in.): 3	
NYTMN (km.): 4982.917	NYTME (km.): 628.218	Building: TF
Emission Point: 00046		
Height (ft.): 26	Diameter (in.): 3	
NYTMN (km.): 4982.92	NYTME (km.): 628.235	Building: TF
Emission Point: 00047		
Height (ft.): 26	Diameter (in.): 3	
NYTMN (km.): 4982.932	NYTME (km.): 628.217	Building: TF
Emission Point: 00048		



Height (ft.): 23                      Diameter (in.): 3  
 NYTMN (km.): 4982.94      NYTME (km.): 628.233      Building: TF

Emission Point: 00049  
 Height (ft.): 23                      Diameter (in.): 3  
 NYTMN (km.): 4982.933      NYTME (km.): 628.233      Building: TF

**Item 51.9(From Mod 0):**

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

Emission Unit: 0-00011

Emission Point: 00097  
 Height (ft.): 20                      Diameter (in.): 2  
 NYTMN (km.): 4982.977      NYTME (km.): 628.297      Building: 26

**Item 51.10(From Mod 0):**

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

Emission Unit: 0-00013

Emission Point: 00175  
 Height (ft.): 100                      Diameter (in.): 66  
 NYTMN (km.): 4982.963      NYTME (km.): 628.36      Building: 36A

Emission Point: 00188  
 Height (ft.): 48                      Diameter (in.): 16  
 NYTMN (km.): 4982.975      NYTME (km.): 628.451      Building: 35

Emission Point: 00189  
 Height (ft.): 48                      Diameter (in.): 16  
 NYTMN (km.): 4983.05      NYTME (km.): 628.46      Building: 27

Emission Point: 00190  
 Height (ft.): 36                      Diameter (in.): 20  
 Building: 27

Emission Point: 00191  
 Height (ft.): 46                      Diameter (in.): 20  
 Building: 35

**Condition 52: Process Definition By Emission Unit  
 Effective between the dates of 06/23/2008 and Permit Expiration Date**

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

**Item 52.1(From Mod 2):**

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

Emission Unit: 0-00009  
 Process: 017                              Source Classification Code: 3-01-060-02  
 Process Description:  
 Chemical pilot plant atmospheric reactor operations with



low temperature condenser controls.

Emission Source/Control: 00194 - Control  
Control Type: VAPOR RECOVERY SYS(INCL.  
CONDENSERS,HOODING, OTHER ENCLOSURES)

Emission Source/Control: 00195 - Control  
Control Type: VAPOR RECOVERY SYS(INCL.  
CONDENSERS,HOODING, OTHER ENCLOSURES)

Emission Source/Control: 00197 - Control  
Control Type: VAPOR RECOVERY SYS(INCL.  
CONDENSERS,HOODING, OTHER ENCLOSURES)

Emission Source/Control: 00325 - Control  
Control Type: PACKED GAS ABSORPTION SYSTEM, GAS  
SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: 00326 - Control  
Control Type: PACKED GAS ABSORPTION SYSTEM, GAS  
SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: 00327 - Control  
Control Type: PACKED GAS ABSORPTION SYSTEM, GAS  
SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: 00328 - Control  
Control Type: PACKED GAS ABSORPTION SYSTEM, GAS  
SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: 00329 - Control  
Control Type: PACKED GAS ABSORPTION SYSTEM, GAS  
SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: 00330 - Control  
Control Type: PACKED GAS ABSORPTION SYSTEM, GAS  
SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: 00175 - Process

Emission Source/Control: 00176 - Process

Emission Source/Control: 00177 - Process

Emission Source/Control: 00178 - Process

Emission Source/Control: 00179 - Process

Emission Source/Control: 00180 - Process

Emission Source/Control: 00181 - Process

Emission Source/Control: 00182 - Process



Emission Source/Control: 00183 - Process

Emission Source/Control: 00184 - Process

Emission Source/Control: 00185 - Process

Emission Source/Control: 00186 - Process

Emission Source/Control: 00187 - Process

Emission Source/Control: 00188 - Process

Emission Source/Control: 00189 - Process

**Item 52.2(From Mod 2):**

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

Emission Unit: 0-00009

Process: 021

Source Classification Code: 3-01-820-01

Process Description:

Treatment of main plant and/or Chemical Development wastewater containing <1% organic solvents. Treatment will include pH neutralization and steam stripping unit operations as needed. Additional Building 26.

Emission Source/Control: 00195 - Control

Control Type: VAPOR RECOVERY SYS(INCL.  
CONDENSERS,HOODING, OTHER ENCLOSURES)

Emission Source/Control: 00316 - Process

Design Capacity: 10,000 gallons

Emission Source/Control: 00317 - Process

Design Capacity: 10,000 gallons

Emission Source/Control: 00318 - Process

Design Capacity: 11,000 gallons

Emission Source/Control: 00319 - Process

Design Capacity: 11,000 gallons

Emission Source/Control: 00320 - Process

Design Capacity: 11,000 gallons

Emission Source/Control: 00321 - Process

Design Capacity: 2,000 gallons

Emission Source/Control: 00322 - Process

Design Capacity: 900 gallons

Emission Source/Control: 00323 - Process

Design Capacity: 500 gallons



Emission Source/Control: 00324 - Process  
Design Capacity: 25 gallons per minute

**Item 52.3(From Mod 2):**

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

Emission Unit: 0-00009  
Process: 17B Source Classification Code: 3-01-060-02

Process Description:  
Chemical pilot plant vacuum reactor operations with low temperature condenser controls.

Emission Source/Control: 00195 - Control  
Control Type: VAPOR RECOVERY SYS(INCL.  
CONDENSERS,HOODING, OTHER ENCLOSURES)

Emission Source/Control: 00196 - Control  
Control Type: VAPOR RECOVERY SYS(INCL.  
CONDENSERS,HOODING, OTHER ENCLOSURES)

Emission Source/Control: 00325 - Control  
Control Type: PACKED GAS ABSORPTION SYSTEM, GAS  
SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: 00326 - Control  
Control Type: PACKED GAS ABSORPTION SYSTEM, GAS  
SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: 00327 - Control  
Control Type: PACKED GAS ABSORPTION SYSTEM, GAS  
SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: 00328 - Control  
Control Type: PACKED GAS ABSORPTION SYSTEM, GAS  
SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: 00329 - Control  
Control Type: PACKED GAS ABSORPTION SYSTEM, GAS  
SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: 00330 - Control  
Control Type: PACKED GAS ABSORPTION SYSTEM, GAS  
SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: 00175 - Process

Emission Source/Control: 00176 - Process

Emission Source/Control: 00177 - Process

Emission Source/Control: 00178 - Process



Emission Source/Control: 00179 - Process

Emission Source/Control: 00180 - Process

Emission Source/Control: 00181 - Process

Emission Source/Control: 00182 - Process

Emission Source/Control: 00183 - Process

Emission Source/Control: 00184 - Process

Emission Source/Control: 00185 - Process

Emission Source/Control: 00186 - Process

Emission Source/Control: 00187 - Process

Emission Source/Control: 00188 - Process

Emission Source/Control: 00189 - Process

Emission Source/Control: 00331 - Process

Emission Source/Control: 00332 - Process

**Item 52.4(From Mod 2):**

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

Emission Unit: 0-00009

Process: 17C

Source Classification Code: 3-01-060-02

Process Description: Chemical pilot plant vacuum tray dryers.

Emission Source/Control: 00195 - Control

Control Type: VAPOR RECOVERY SYS(INCL.

CONDENSERS,HOODING, OTHER ENCLOSURES)

Emission Source/Control: 00325 - Control

Control Type: PACKED GAS ABSORPTION SYSTEM, GAS  
SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: 00326 - Control

Control Type: PACKED GAS ABSORPTION SYSTEM, GAS  
SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: 00327 - Control

Control Type: PACKED GAS ABSORPTION SYSTEM, GAS  
SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: 00328 - Control

Control Type: PACKED GAS ABSORPTION SYSTEM, GAS  
SCRUBBER (GENERAL, NOT CLASSIFIED)



Emission Source/Control: 00329 - Control  
Control Type: PACKED GAS ABSORPTION SYSTEM, GAS  
SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: 00330 - Control  
Control Type: PACKED GAS ABSORPTION SYSTEM, GAS  
SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: 00190 - Process

Emission Source/Control: 00191 - Process

Emission Source/Control: 00192 - Process

Emission Source/Control: 00193 - Process

Emission Source/Control: 00331 - Process

Emission Source/Control: 00332 - Process

**Item 52.5(From Mod 2):**

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

Emission Unit: 0-00009

Process: 21B

Source Classification Code: 3-01-820-01

Process Description:

Treatment of Chemical Development wastewater containing up to 15% organic solvents. Treatment will include pH neutralization and steam stripping unit operations as needed. Additional Building 26.

Emission Source/Control: 00195 - Control

Control Type: VAPOR RECOVERY SYS(INCL.  
CONDENSERS,HOODING, OTHER ENCLOSURES)

Emission Source/Control: 00316 - Process  
Design Capacity: 10,000 gallons

Emission Source/Control: 00317 - Process  
Design Capacity: 10,000 gallons

Emission Source/Control: 00318 - Process  
Design Capacity: 11,000 gallons

Emission Source/Control: 00319 - Process  
Design Capacity: 11,000 gallons

Emission Source/Control: 00320 - Process  
Design Capacity: 11,000 gallons

Emission Source/Control: 00321 - Process  
Design Capacity: 2,000 gallons



Emission Source/Control: 00322 - Process  
Design Capacity: 900 gallons

Emission Source/Control: 00323 - Process  
Design Capacity: 500 gallons

Emission Source/Control: 00324 - Process  
Design Capacity: 25 gallons per minute

**Item 52.6(From Mod 0):**

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

Emission Unit: 0-00001

Process: 001

Source Classification Code: 1-02-006-01

Process Description:

4 Natural gas fired steam generating boilers, each with a maximum rated heat input capacity greater than 50 million Btu's per hour and equal to or less than 100 million Btu's per hour.

Emission Source/Control: 00001 - Combustion  
Design Capacity: 55.9 million Btu per hour

Emission Source/Control: 00074 - Combustion  
Design Capacity: 73 million Btu per hour

Emission Source/Control: 00204 - Combustion  
Design Capacity: 84.5 million Btu per hour

Emission Source/Control: 00333 - Combustion  
Design Capacity: 98 million Btu per hour

**Item 52.7(From Mod 0):**

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

Emission Unit: 0-00001

Process: 01C

Source Classification Code: 1-02-005-01

Process Description:

4 No. 2 fuel oil fired steam generating boilers, each with a maximum rated heat input capacity of greater than 50 million Btu's per hour and equal to or less than 100 million Btu's per hour.

Emission Source/Control: 00001 - Combustion  
Design Capacity: 55.9 million Btu per hour

Emission Source/Control: 00074 - Combustion  
Design Capacity: 73 million Btu per hour

Emission Source/Control: 00204 - Combustion  
Design Capacity: 84.5 million Btu per hour

Emission Source/Control: 00333 - Combustion



Design Capacity: 98 million Btu per hour

**Item 52.8(From Mod 0):**

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

Emission Unit: 0-00002

Process: 003

Source Classification Code: 3-01-060-08

Process Description: Chemical Pilot Plant production exhaust systems.

Emission Source/Control: 00052 - Control

Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: 00126 - Control

Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00164 - Control

Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00374 - Control

Control Type: FABRIC FILTER

Emission Source/Control: 00026 - Process

Emission Source/Control: 00049 - Process

Emission Source/Control: 00051 - Process

Emission Source/Control: 00125 - Process

Emission Source/Control: 00161 - Process

Emission Source/Control: 00163 - Process

**Item 52.9(From Mod 0):**

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

Emission Unit: 0-00003

Process: 004

Source Classification Code: 3-01-060-08

Process Description:

Tablet coating solution area production exhaust system.

Additional building no. 18 and 27.

Emission Source/Control: 00141 - Control

Control Type: FABRIC FILTER

Emission Source/Control: 00142 - Control

Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00212 - Control

Control Type: FABRIC FILTER

Emission Source/Control: 00213 - Control

Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER



Emission Source/Control: 00241 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00242 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00247 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00248 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00140 - Process

Emission Source/Control: 00211 - Process

Emission Source/Control: 00240 - Process

Emission Source/Control: 00246 - Process

Emission Source/Control: 00399 - Process

**Item 52.10(From Mod 0):**

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

Emission Unit: 0-00003

Process: 005

Source Classification Code: 3-01-060-08

Process Description:

House vacuum systems used for cleaning building and machinery surfaces. Additional building nos. 4a,15,21,20,32, 27, & 35.

Emission Source/Control: 00003 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00005 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00009 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00025 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00147 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00174 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00228 - Control  
Control Type: FABRIC FILTER



Emission Source/Control: 00266 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00405 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00406 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00407 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00408 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00002 - Process

Emission Source/Control: 00004 - Process

Emission Source/Control: 00008 - Process

Emission Source/Control: 00021 - Process

Emission Source/Control: 00024 - Process

Emission Source/Control: 00146 - Process

Emission Source/Control: 00173 - Process

Emission Source/Control: 00227 - Process

Emission Source/Control: 00265 - Process

**Item 52.11(From Mod 0):**

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

Emission Unit: 0-00003

Process: 006

Source Classification Code: 3-01-060-08

Process Description:

Production exhaust systems. Additional building nos.  
3ai, 4a, 13, 14, 21, 18, 19, 25, & 35.

Emission Source/Control: 00007 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00011 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00015 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00016 - Control



Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00058 - Control

Control Type: FABRIC FILTER

Emission Source/Control: 00059 - Control

Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00166 - Control

Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00168 - Control

Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00226 - Control

Control Type: FABRIC FILTER

Emission Source/Control: 00264 - Control

Control Type: FABRIC FILTER

Emission Source/Control: 00391 - Control

Control Type: FABRIC FILTER

Emission Source/Control: 00392 - Control

Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00394 - Control

Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00396 - Control

Control Type: FABRIC FILTER

Emission Source/Control: 00397 - Control

Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00401 - Control

Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00403 - Control

Control Type: FABRIC FILTER

Emission Source/Control: 00404 - Control

Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00006 - Process

Emission Source/Control: 00010 - Process

Emission Source/Control: 00014 - Process

Emission Source/Control: 00057 - Process

Emission Source/Control: 00165 - Process



Emission Source/Control: 00167 - Process

Emission Source/Control: 00225 - Process

Emission Source/Control: 00262 - Process

Emission Source/Control: 00263 - Process

Emission Source/Control: 00390 - Process

Emission Source/Control: 00393 - Process

Emission Source/Control: 00395 - Process

Emission Source/Control: 00398 - Process

**Item 52.12(From Mod 0):**

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

Emission Unit: 0-00004

Process: 007

Source Classification Code: 3-01-060-04

Process Description:

Pharmaceutical manufacturing operations are vented to a common dust collector and stack (EP#00106) with the exception of the Charging (ES00375) and Pack-Off (ES00376) Isolators. The Charging and Pack-off isolators are controlled by HEPA filters (ES 000377 & 000378) and vented through EPs 00180 and 00181, respectively.

Emission Source/Control: 00100 - Control

Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00124 - Control

Control Type: FABRIC FILTER

Emission Source/Control: 00377 - Control

Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00378 - Control

Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00092 - Process

Emission Source/Control: 00095 - Process

Emission Source/Control: 00096 - Process

Emission Source/Control: 00097 - Process

Emission Source/Control: 00098 - Process

Emission Source/Control: 00099 - Process



- Emission Source/Control: 00101 - Process
- Emission Source/Control: 00102 - Process
- Emission Source/Control: 00103 - Process
- Emission Source/Control: 00104 - Process
- Emission Source/Control: 00105 - Process
- Emission Source/Control: 00106 - Process
- Emission Source/Control: 00107 - Process
- Emission Source/Control: 00108 - Process
- Emission Source/Control: 00111 - Process
- Emission Source/Control: 00113 - Process
- Emission Source/Control: 00114 - Process
- Emission Source/Control: 00115 - Process
- Emission Source/Control: 00116 - Process
- Emission Source/Control: 00117 - Process
- Emission Source/Control: 00118 - Process
- Emission Source/Control: 00119 - Process
- Emission Source/Control: 00120 - Process
- Emission Source/Control: 00121 - Process
- Emission Source/Control: 00122 - Process
- Emission Source/Control: 00123 - Process
- Emission Source/Control: 00375 - Process
- Emission Source/Control: 00376 - Process

**Item 52.13(From Mod 0):**

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

Emission Unit: 0-00005

Process: 008

Source Classification Code: 3-01-060-09

Process Description:

Tray dryers used in pharmaceutical manufacturing.  
Additional buildings nos. 14 & 21.



Emission Source/Control: 00156 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00155 - Process

Emission Source/Control: 00169 - Process

Emission Source/Control: 00258 - Process

**Item 52.14(From Mod 0):**

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

Emission Unit: 0-00005  
Process: 009 Source Classification Code: 3-01-060-09  
Process Description:  
Air dryers used in pharmaceutical manufacturing.  
Additional buildings nos. 27, 14, 32, 35, 27, & 21.

Emission Source/Control: 00054 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00130 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00158 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00160 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00260 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00261 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00053 - Process

Emission Source/Control: 00129 - Process

Emission Source/Control: 00157 - Process

Emission Source/Control: 00159 - Process

Emission Source/Control: 00259 - Process

**Item 52.15(From Mod 0):**

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

Emission Unit: 0-00006  
Process: 011 Source Classification Code: 3-01-060-11  
Process Description:



Procoater coating pans used for the coating of formed pharmaceutical products. Additional building nos. 27 and 21.

Emission Source/Control: 00136 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00139 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00199 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00200 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00202 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00203 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00207 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00210 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00235 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00236 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00238 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00239 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00244 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00245 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00311 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00312 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00314 - Control



Control Type: FABRIC FILTER

Emission Source/Control: 00315 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00379 - Control  
Control Type: WET SCRUBBER

Emission Source/Control: 00380 - Control  
Control Type: WET SCRUBBER

Emission Source/Control: 00381 - Control  
Control Type: WET SCRUBBER

Emission Source/Control: 00382 - Control  
Control Type: WET SCRUBBER

Emission Source/Control: 00383 - Control  
Control Type: WET SCRUBBER

Emission Source/Control: 00387 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00134 - Process

Emission Source/Control: 00137 - Process

Emission Source/Control: 00198 - Process

Emission Source/Control: 00201 - Process

Emission Source/Control: 00205 - Process

Emission Source/Control: 00208 - Process

Emission Source/Control: 00234 - Process

Emission Source/Control: 00237 - Process

Emission Source/Control: 00243 - Process

Emission Source/Control: 00313 - Process

Emission Source/Control: 00334 - Process

**Item 52.16(From Mod 0):**

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

Emission Unit: 0-00006

Process: 012

Source Classification Code: 3-01-060-11

Process Description:

Tablet coating pans used for coating formed pharmaceutical products with scrubber control. Additional



building no. 21.

Emission Source/Control: 00151 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00152 - Control  
Control Type: WET SCRUBBER

Emission Source/Control: 00230 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00231 - Control  
Control Type: WET SCRUBBER

Emission Source/Control: 00373 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00148 - Process

Emission Source/Control: 00149 - Process

Emission Source/Control: 00150 - Process

Emission Source/Control: 00229 - Process

Emission Source/Control: 00365 - Process

Emission Source/Control: 00366 - Process

Emission Source/Control: 00386 - Process

**Item 52.17(From Mod 0):**

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

Emission Unit: 0-00006

Process: 013

Source Classification Code: 3-01-060-11

Process Description:

Tablet coating pans used for coating formed  
pharmaceutical products. Additional building no. 32.

Emission Source/Control: 00154 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00127 - Process

Emission Source/Control: 00153 - Process

**Item 52.18(From Mod 0):**

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

Emission Unit: 0-00006

Process: 014

Source Classification Code: 3-01-060-11

Process Description:



Accela cota coating pans used for coating of formed pharmaceutical products. Additional building nos. 32 and 18.

Emission Source/Control: 00076 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00077 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00144 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00145 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00368 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00369 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00371 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00372 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00037 - Process

Emission Source/Control: 00075 - Process

Emission Source/Control: 00143 - Process

Emission Source/Control: 00367 - Process

Emission Source/Control: 00370 - Process

**Item 52.19(From Mod 0):**

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

Emission Unit: 0-00008  
Process: 016 Source Classification Code: 4-07-080-98  
Process Description: Vapor losses from chemical bulk storage tanks.

Emission Source/Control: 00040 - Control  
Control Type: CONSERVATION VENT

Emission Source/Control: 00044 - Control  
Control Type: CONSERVATION VENT

Emission Source/Control: 00046 - Control  
Control Type: CONSERVATION VENT



Emission Source/Control: 00048 - Control  
Control Type: CONSERVATION VENT

Emission Source/Control: 00267 - Control  
Control Type: CONSERVATION VENT

Emission Source/Control: 00268 - Control  
Control Type: CONSERVATION VENT

Emission Source/Control: 00269 - Control  
Control Type: CONSERVATION VENT

Emission Source/Control: 00270 - Control  
Control Type: CONSERVATION VENT

Emission Source/Control: 00036 - Process

Emission Source/Control: 00038 - Process

Emission Source/Control: 00039 - Process

Emission Source/Control: 00041 - Process

Emission Source/Control: 00042 - Process

Emission Source/Control: 00043 - Process

Emission Source/Control: 00045 - Process

Emission Source/Control: 00047 - Process

**Item 52.20(From Mod 0):**

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

Emission Unit: 0-00011

Process: 019

Source Classification Code: 4-07-080-97

Process Description:

Expansion tank for silicone oil heat transfer media.

Emission Source/Control: 00069 - Process

**Item 52.21(From Mod 0):**

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

Emission Unit: 0-00013

Process: 022

Source Classification Code: 3-01-060-08

Process Description:

Various Pharmaceutical Coating and Granulation activities vented to regenerative thermal oxidizer/scrubber control system for control of VOC and HAP emissions.

Emission Source/Control: M0056 - Control



Control Type: VAPOR RECOVERY SYS(INCL.  
CONDENSERS,HOODING, OTHER ENCLOSURES)

Emission Source/Control: M0064 - Control  
Control Type: REFRIGERATED CONDENSER

Emission Source/Control: M0065 - Control  
Control Type: VAPOR RECOVERY SYS(INCL.  
CONDENSERS,HOODING, OTHER ENCLOSURES)

Emission Source/Control: M0067 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: M0085 - Control  
Control Type: REFRIGERATED CONDENSER

Emission Source/Control: M0086 - Control  
Control Type: VAPOR RECOVERY SYS(INCL.  
CONDENSERS,HOODING, OTHER ENCLOSURES)

Emission Source/Control: M0088 - Control  
Control Type: VAPOR RECOVERY SYS(INCL.  
CONDENSERS,HOODING, OTHER ENCLOSURES)

Emission Source/Control: M0090 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: M0215 - Control  
Control Type: REFRIGERATED CONDENSER

Emission Source/Control: M0216 - Control  
Control Type: VAPOR RECOVERY SYS(INCL.  
CONDENSERS,HOODING, OTHER ENCLOSURES)

Emission Source/Control: M0218 - Control  
Control Type: VAPOR RECOVERY SYS(INCL.  
CONDENSERS,HOODING, OTHER ENCLOSURES)

Emission Source/Control: M0220 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: M0233 - Control  
Control Type: VAPOR RECOVERY SYS(INCL.  
CONDENSERS,HOODING, OTHER ENCLOSURES)

Emission Source/Control: M0307 - Control  
Control Type: TUBE AND SHELL CONDENSER

Emission Source/Control: M0320 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: M0327 - Control  
Control Type: FABRIC FILTER



Emission Source/Control: M0328 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: M0330 - Control  
Control Type: REFRIGERATED CONDENSER

Emission Source/Control: M0331 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: M0337 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: M0338 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: M0340 - Control  
Control Type: REFRIGERATED CONDENSER

Emission Source/Control: M0341 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: M0347 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: M0348 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: M0350 - Control  
Control Type: REFRIGERATED CONDENSER

Emission Source/Control: M0353 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: M0354 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: M0358 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: M0359 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: M0360 - Control  
Control Type: THERMAL OXIDATION

Emission Source/Control: M0361 - Control  
Control Type: THERMAL OXIDATION

Emission Source/Control: M0362 - Control  
Control Type: WET SCRUBBER

Emission Source/Control: M0363 - Control



Control Type: WET SCRUBBER

Emission Source/Control: M0055 - Process

Emission Source/Control: M0063 - Process

Emission Source/Control: M0066 - Process

Emission Source/Control: M0084 - Process

Emission Source/Control: M0087 - Process

Emission Source/Control: M0089 - Process

Emission Source/Control: M0214 - Process

Emission Source/Control: M0217 - Process

Emission Source/Control: M0219 - Process

Emission Source/Control: M0232 - Process

Emission Source/Control: M0306 - Process

Emission Source/Control: M0308 - Process

Emission Source/Control: M0309 - Process

Emission Source/Control: M0310 - Process

Emission Source/Control: M0321 - Process

Emission Source/Control: M0322 - Process

Emission Source/Control: M0323 - Process

Emission Source/Control: M0324 - Process

Emission Source/Control: M0325 - Process

Emission Source/Control: M0326 - Process

Emission Source/Control: M0329 - Process

Emission Source/Control: M0332 - Process

Emission Source/Control: M0333 - Process

Emission Source/Control: M0334 - Process

Emission Source/Control: M0335 - Process

Emission Source/Control: M0336 - Process



- Emission Source/Control: M0339 - Process
- Emission Source/Control: M0342 - Process
- Emission Source/Control: M0343 - Process
- Emission Source/Control: M0344 - Process
- Emission Source/Control: M0345 - Process
- Emission Source/Control: M0346 - Process
- Emission Source/Control: M0349 - Process
- Emission Source/Control: M0351 - Process
- Emission Source/Control: M0352 - Process
- Emission Source/Control: M0355 - Process
- Emission Source/Control: M0356 - Process
- Emission Source/Control: M0357 - Process
- Emission Source/Control: M0364 - Process

**Item 52.22(From Mod 0):**

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

Emission Unit: 0-00013

Process: 023

Source Classification Code: 3-01-060-12

Process Description:

This process represents aqueous (non-solvent) granulation processes in PAL 4 and 7. In addition to particulate emissions from fluid bed dryers (FBDs) (EPs 00188 & 00189) fugitive emissions from other granulation activities are also captured by dedicated dust collection systems. These emissions are exhausted to the atmosphere (EPs 00190 & 00191) in aqueous mode instead of being directed to the RTO. These are potential sources for Active Particulate Ingredients (APIs).

Emission Source/Control: M0090 - Control

Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: M0220 - Control

Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: M0331 - Control

Control Type: FABRIC FILTER

Emission Source/Control: M0337 - Control



Control Type: FABRIC FILTER

Emission Source/Control: M0338 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: M0341 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: M0347 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: M0348 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: M0089 - Process

Emission Source/Control: M0219 - Process

Emission Source/Control: M0332 - Process

Emission Source/Control: M0333 - Process

Emission Source/Control: M0334 - Process

Emission Source/Control: M0342 - Process

Emission Source/Control: M0343 - Process

Emission Source/Control: M0344 - Process

**Condition 2-2: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement:6NYCRR 200.6**

**Item 2-2.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 0-00009

**Item 2-2.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To establish annual Potentials to Emit (PTE) and mitigate annual ambient air impacts, the total number of batches produced, using the contaminants specified in Appendix C, version 11-21-08, during any consecutive twelve month period (rolled monthly) shall be limited as specified therein.

A written record of the number of above-referenced batches



processed shall be maintained by the owner or operator. The running annual number of batches processed (rolled monthly), using each specified contaminant, shall not exceed the limit specified for that contaminant.

Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL CHANGE

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-6: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement:6NYCRR 200.6**

**Item 2-6.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 0-00009

**Item 2-6.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emission from other air contaminant 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.

Appendix C, version 11-21-08, lists VOC contaminants that may be emitted while performing the processes permitted under this emission unit (EU #0-00009) and which are not given an environmental rating of "A" per 6 NYCRR 212.9(a) Table 1. This determination involves the evaluation of facility-wide impacts which are based on various conditions contained in this permit (e.g., batch limits and simultaneous emissions), as well as the required degree of control specified by this permit condition.

For these processes, the owner or operator shall achieve the degree of control specified in Appendix C for each contaminant emitted. When using vent condensers to control emissions from these processes, they shall achieve, at a maximum, the temperatures specified in Appendix C. The owner or operator shall demonstrate



compliance with vent condensers' (ES Nos. 00194-00197) maximum outlet temperatures based on a 6-hour rolling average.

When product batches are run using these contaminants, the outlet gas temperature of the refrigerated condenser used to control emissions shall be monitored and recorded at least once every 15 minutes, but no less than 4 times during the course of the unit operation for which it is being used. In cases where the condenser outlet gas temperature is not readily measurable due to negligible gas flow rate, the temperature of the condenser coolant may be used in lieu of condenser outlet gas temperature as long as the temperature of the condenser coolant does not exceed the allowable condenser outlet gas temperature specified above.

Compliance with this condition also demonstrates compliance for process sources subject to VOC RACT control requirements specified in 6NYCRR 233.3 (a).

The owner or operator may substitute scrubbers (ES Nos. 00325-00330) for control of contaminants as specified in permit conditions and Appendix C.

Parameter Monitored: TEMPERATURE

Upper Permit Limit: Appendix C degrees Centigrade (or Celsius)

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 6-HOUR ROLLING AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-7: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement: 6NYCRR 200.6**

**Item 2-7.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 0-00009

**Item 2-7.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To mitigate short-term ambient impact problems, a unit process using contaminants identified in Appendix C, version 11-21-08, as having SGC restrictions shall not be



run simultaneously with any other unit process using these specified contaminants. The owner or operator shall maintain a record of each unit process run using each of these contaminants and the date and time of each batch.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-8: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement:6NYCRR 200.6**

**Item 2-8.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 0-00009

**Item 2-8.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

The owner or operator shall maintain and operate an interlock device preventing the operation of the wastewater steam stripper at temperatures greater than -25 degrees C. The interlock device shall be kept in a satisfactory state of maintenance and repair in accordance with the manufacturer's specifications and as required to operate such device effectively.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-9: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement:6NYCRR 200.6**

**Item 2-9.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 0-00009

**Item 2-9.2:**

Compliance Certification shall include the following monitoring:



Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

No person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emission from other air contaminant 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.

Appendix C, version 11-21-08, lists VOC contaminants that may be emitted while performing the processes permitted under this emission unit (EU #0-00009) and which are not given an environmental rating of "A" per 6 NYCRR 212.9(a) Table 1. This determination involves the evaluation of facility-wide impacts which are based on various conditions contained in this permit (e.g., batch limits and simultaneous emissions), as well as the required degree of control specified by this permit condition.

For these processes, the owner or operator shall achieve the degree of control specified in Appendix C for each contaminant emitted. When using scrubbers to control emissions from these processes, they shall achieve, at a minimum, the percent control efficiency specified in Appendix C.

To document control efficiencies being achieved for scrubbers (ES Nos. 00325-00330), the source owner or operator shall maintain records of the following information for each unit operation performed using the above contaminants:

1. All physical data needed to determine the appropriate scrubber liquid composition.
2. The exhaust gas flow rate for the process being controlled by the scrubber.
3. The vapor-to-liquid flow ratio needed to achieve the required control efficiency.
4. The scrubber liquid flow rate maintained during the unit operation. This parameter shall be continuously monitored and recorded (at least once every 15 minutes) for the duration of the unit operation.
5. The calculation method(s) used to determine the above scrubber operating parameters.

Compliance with this condition also demonstrates



compliance for process sources subject to VOC RACT control requirements specified in 6NYCRR 233.3 (a).

The owner or operator may substitute vent condenser's (ES Nos. 00194-00197) for control of contaminants as specified in permit conditions and Appendix C.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-10: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6NYCRR 200.6**

**Item 2-10.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 0-00009

**Item 2-10.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To mitigate short-term ambient air impacts for VOC contaminants listed in Appendix C, version 11-21-08, which are not given an environmental rating of "A", the owner or operator shall monitor and record the condensers' (ES Nos. 00194-00197) 1-hour rolling average outlet gas temperature (at least every 15 minutes). If the 1-hour average temperature exceeds the action level temperature identified in Appendix C, on a contaminant specific basis, the owner or operator shall verify and maintain adequate documentation demonstrating that the actual hourly mass emission rate(s) (MER) for Emission Unit (EU-00009) does not exceed the Emission Unit's (scrubber adjusted) hourly PTE contained in Appendix D. Deviations of the action level temperature shall be included in the Semiannual report as percent of total operating time.

If EU-00009's (scrubber adjusted) hourly PTE is exceeded, the violation must be reported as required in conditions of this permit and in accordance with 6NYCRR 201-6.5(c)(3)(ii).

In cases where the condenser outlet gas temperature is not readily measurable due to negligible gas flow rate, the temperature of the condenser coolant may be used in lieu of condenser outlet gas temperature as long as the



temperature of the condenser coolant does not exceed the allowable condenser outlet gas temperature specified above.

The owner or operator shall, to the extent practicable, maintain and operate the emission source/control in a manner consistent with good air pollution control practice for minimizing emissions.

Monitoring Frequency: CONTINUOUS  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 6 calendar month(s).

**Condition 2-3: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement: 6NYCRR 212.4(a)**

**Item 2-3.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 0-00009

**Item 2-3.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To mitigate short-term ambient air impacts for A-rated and non-VOC contaminants listed in Appendix C, version 11-21-08, the owner or operator shall monitor and record the condensers' (ES Nos. 00194-00197) 1-hour rolling average outlet gas temperature (at least every 15 minutes). If the 1-hour average temperature exceeds the action level temperature identified in Appendix C, on a contaminant specific basis, the source owner or operator shall verify and maintain adequate documentation demonstrating that the actual hourly mass emission rate(s) (MER) for Emission Unit (EU-00009) does not exceed the Emission Unit's (scrubber adjusted) hourly PTE contained in Appendix D. Deviations of the action level temperature shall be included in the Semiannual report as percent of total operating time.

If EU-00009's (scrubber adjusted) hourly PTE is exceeded, the violation must be reported as required in conditions of this permit and in accordance with 6NYCRR 201-6.5(c)(3)(ii).

In cases where the condenser outlet gas temperature is not readily measurable due to negligible gas flow rate, the temperature of the condenser coolant may be used in lieu



of condenser outlet gas temperature as long as the temperature of the condenser coolant does not exceed the allowable condenser outlet gas temperature specified above.

The owner or operator shall, to the extent practicable, maintain and operate the emission source/control in a manner consistent with good air pollution control practice for minimizing emissions.

Monitoring Frequency: CONTINUOUS  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 6 calendar month(s).

**Condition 2-4: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement: 6NYCRR 212.4(a)**

**Item 2-4.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 0-00009

**Item 2-4.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Appendix C, version 11-21-08, lists the VOC & non-VOC contaminants that may be emitted while performing the processes permitted under this emission unit (EU #0-00009) and are given an environmental rating of "A," per 6 NYCRR 212.9(a) Table 1.

Per 6 NYCRR 212.9(b) Table 2, those with emission rate potentials (ERP's) greater than 1 pound per hour shall have 99% control or greater or Best Available Control Technology (BACT). For these processes, the owner or operator shall use vent condensers (ES Nos. 00194-00197) with a maximum outlet temperature of -25 degrees C or scrubbers (ES Nos. 00325-00330) to achieve, at a minimum, the required degree of control specified in Appendix C. A maximum vent condenser outlet temperature of -25 degrees C is considered BACT, and satisfies the degree of control specified by the commissioner in this case. The owner or operator shall demonstrate compliance with this temperature limit based on a 6-hour rolling average.

When product batches are run using these contaminants, the



outlet gas temperature of the refrigerated condenser used to control emissions shall be monitored and recorded at least once every 15 minutes, but no less than 4 times during the course of the unit operation for which it is being used. In cases where the condenser outlet gas temperature is not readily measurable due to negligible gas flow rate, the temperature of the condenser coolant may be used in lieu of condenser outlet gas temperature as long as the temperature of the condenser coolant does not exceed the allowable condenser outlet gas temperature specified above.

The owner or operator may substitute scrubbers (ES Nos. 00325-00330) for control of contaminants as specified in permit conditions and Appendix C.

Parameter Monitored: TEMPERATURE

Upper Permit Limit: -25 degrees Centigrade (or Celsius)

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 6-HOUR ROLLING AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-5: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement: 6NYCRR 212.4(a)**

**Item 2-5.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 0-00009

**Item 2-5.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Appendix C, version 11-21-08, lists VOC & non-VOC contaminants that may be emitted while performing the processes permitted under this emission unit (EU #0-00009) and are given an environmental rating of "A," per 6 NYCRR 212.9(a) Table 1.

Per 6 NYCRR 212.9(b) Table 2, those with emission rate potentials (ERP's) greater than 1 pound per hour shall have 99% control or greater or Best Available Control Technology (BACT). For these processes, the owner or operator shall use vent condensers (ES Nos. 00194-00197) with a maximum outlet temperature of -25C or scrubbers (ES



Nos. 00325-00330) to achieve, at a minimum, the required degree of control specified in Appendix C.

In order to document the scrubber control efficiencies being achieved, source owner or operator shall maintain records of the following information for each unit operation performed using the above contaminants:

1. All physical data needed to determine the appropriate scrubber liquid composition.
2. The exhaust gas flow rate for the process being controlled by the scrubber.
3. The vapor-to-liquid flow ratio needed to achieve the required control efficiency.
4. The scrubber liquid flow rate maintained during the unit operation. This parameter shall be continuously monitored and recorded (at least once every 15 minutes) for the duration of the unit operation.
5. The calculation method(s) used to determine the above scrubber operating parameters.

The owner or operator may substitute vent condensers (ES Nos. 00194-00197) for control of contaminants as specified in permit conditions and Appendix C.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 72: Compliance Certification**  
**Effective between the dates of 06/23/2008 and Permit Expiration Date**

**Applicable Federal Requirement:**

**Expired by Mod 2**

**Item 72.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 0-00009

**Item 72.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Of the contaminants that may be emitted while performing the processes permitted under this emission unit (EU



#0-00009), the following are given an environmental rating of "A" per 6 NYCRR 212.9(a) Table 1:

1. Bromine (CAS #07726-95-6)
2. Chlorine (CAS #07782-50-5)
3. Methyl Hydrazine (CAS #00060-34-4)
4. Hydrazine (CAS #00302-01-2)
5. Methylamine (40% solution - CAS #00074-89-5)

Per 6 NYCRR 212.9(b) Table 2, those with emission rate potentials (ERP's) greater than 1 pound per hour shall have 99% control or greater or Best Available Control Technology (BACT) and those with ERP's less than 1 pound per hour shall have the degree of air cleaning specified by the Commissioner. All of the above contaminants, except for Hydrazine, have ERP's greater than 1 pound per hour, and shall have the required 99% control or greater. This degree of control will be achieved using scrubbers (ES Nos. 00325-00330). The required degree of control for Hydrazine shall also be 99% control via the scrubbers (ES Nos. 00325-00330).

In order to document the control efficiencies being achieved, source owner or operator shall maintain records of the following information for each unit operation performed using the above contaminants:

1. All physical data needed to determine the appropriate scrubber liquid composition.
2. The exhaust gas flow rate for the process being controlled by the scrubber.
3. The vapor-to-liquid flow ratio needed to achieve the required control efficiency.
4. The scrubber liquid flow rate maintained during the unit operation. This parameter shall be continuously monitored and recorded (at least once every 15 minutes) for the duration of the unit operation.
5. The calculation method(s) used to determine the above scrubber operating parameters.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2008.

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

**Condition 73: Compliance Certification**

**Effective between the dates of 06/23/2008 and Permit Expiration Date**



**Applicable Federal Requirement:**

**Expired by Mod 2**

**Item 73.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 0-00009

**Item 73.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Of the contaminants that may be emitted while performing the processes permitted under this emission unit (EU #0-00009), the following are given an environmental rating of "A" per 6 NYCRR 212.9(a) Table 1. Per 6 NYCRR 212.9(b) Table 2, those with emission rate potentials (ERP's) greater than 1 pound per hour shall have 99% control or greater or Best Available Control Technology (BACT), and those with ERP's less than 1 pound per hour shall have the degree of air cleaning specified by the Commissioner. For these processes, the source owner or operator shall use vent condensers (ES Nos. 00194-00197) with a maximum outlet temperature of -25 degrees C to control emissions of these contaminants. This is considered BACT and satisfies the degree of control required by the commissioner in this case:

1. 1,2-Dibromoethane (CAS #00106-93-4)
2. 2-Chloroacetonitrile (CAS #00107-14-2)
3. 2-Chloropyridine (CAS #00109-09-1)
4. 4-Bromobutyronitrile (CAS #05332-06-9)
5. 4-Penten-2-ol (CAS #00625-31-0)
6. Allyl Alcohol (CAS #00107-18-6)
7. Allyl Isocyanate (CAS #01476-23-9)
8. Aniline (CAS #00062-53-3)
9. Benzyl Chloride (CAS #00100-44-7)
10. Boron Trifluoride Etherate (CAS #00109-63-7)
11. Cyclohexane Carbonyl Chloride (CAS #02719-27-9)
12. Cyclopentyl Chloride (CAS #00930-28-9)
13. Di-t-Butyldicarbonate (CAS #24424-99-5)
14. Diethyl-2-acetyl Glutarate (CAS #01501-06-0)
15. Diethyl Azodicarboxylate (CAS #01972-28-7)
16. Diethyl Squarate (05231-87-8)
17. Diethyl Chlorophosphate (CAS #00814-49-3)
18. Diethyl Vinylphosphonate (CAS #00682-30-4)
19. Dimethyl Malonate (CAS #00108-59-8)
20. Dimethyl Sulfate (CAS #00077-78-1)
21. Dimethyl Phenyl Isocyanate (CAS #28556-81-2)
22. Ethanethiol (CAS #00075-08-1)



23. Formaldehyde (CAS #00050-00-0)
24. Hexamethylene Imine (CAS #00111-49-9)
25. Hexyl Isocyanate (CAS #02525-62-4)
26. Indoline (CAS #00496-15-1)
27. Isobutyl Chloroformate (CAS #00543-27-1)
28. p-Methoxyphenylacetonitrile (CAS #00104-47-2)
29. Peracetic Acid (CAS #00079-21-0)
30. Phosphorous Oxychloride (CAS #10025-87-3)
31. Propionyl Chloride (CAS #00079-03-8)
32. Trimethylene Chlorobromide (CAS #00109-70-6)

When product batches are run using these contaminants, the outlet gas temperature of the refrigerated condenser used to control emissions shall be monitored and recorded at least once every 15 minutes, but no less than 4 times during the course of the unit operation for which it is being used. In cases where the condenser outlet gas temperature is not readily measurable due to negligible gas flow rate, the temperature of the condenser coolant may be used in lieu of condenser outlet gas temperature as long as the temperature of the condenser coolant does not exceed the allowable condenser outlet gas temperature specified above.

Parameter Monitored: TEMPERATURE

Upper Permit Limit: -25 degrees Centigrade (or Celsius)

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2008.

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

**Condition 74: Compliance Certification**

**Effective between the dates of 06/23/2008 and Permit Expiration Date**

**Applicable Federal Requirement:**

**Expired by Mod 2**

**Item 74.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 0-00009

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

**Item 74.2:**

Compliance Certification shall include the following monitoring:



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

Monitoring Description:

Any synthesized pharmaceutical manufacturing process performed for production purposes (i.e., not for research & development), having an emission rate potential for VOC greater than 15 pounds per day, must control VOC emissions from reactors, extractors, distillation operations, crystallizers, centrifuges, and/or vacuum dryers using surface condensers as follows:

If the vapor pressure of the VOC involved is greater than 1.5 psi at 20 degrees C, the condenser outlet temperature must not exceed 0 degrees C (except where a lower condenser outlet temperature is specified elsewhere in this permit).

If the operation of a condenser at the exit temperature specified above results in freezing and consequent plugging of the condenser, the allowable exit temperature may be raised to a maximum of 2 degrees C above the freezing point of the VOC.

In cases where the condenser outlet gas temperature is not readily measurable due to negligible gas flow rate, the temperature of the condenser coolant may be used in lieu of condenser outlet gas temperature as long as the temperature of the condenser coolant does not exceed the allowable condenser outlet gas temperature specified above.

The outlet gas temperature (or coolant temperature as noted above) shall be monitored and recorded at least once every 15 minutes, but no less than 4 times during the course of the unit operation for which it is being used. The monitoring device must be calibrated quarterly and must be operated at all times that the associated condenser is operating.

Parameter Monitored: TEMPERATURE

Upper Permit Limit: 0 degrees Centigrade (or Celsius)

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2008.

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

**Condition 75: Compliance Certification**

**Effective between the dates of 06/23/2008 and Permit Expiration Date**



**Applicable Federal Requirement:**

**Expired by Mod 2**

**Item 75.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 0-00009

Regulated Contaminant(s):

CAS No: 0NY998-00-0      VOC

**Item 75.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Any synthesized pharmaceutical manufacturing process performed for production purposes (i.e., not for research & development), having an emission rate potential for VOC greater than 15 pounds per day, must control VOC emissions from reactors, extractors, distillation operations, crystallizers, centrifuges, and/or vacuum dryers using surface condensers as follows:

If the vapor pressure of the VOC involved is greater than 1.0 psi at 20 degrees C, the condenser outlet temperature must not exceed 10 degrees C (except where a lower condenser outlet temperature is specified elsewhere in this permit).

If the operation of a condenser at the exit temperature specified above results in freezing and consequent plugging of the condenser, the allowable exit temperature may be raised to a maximum of 2 degrees C above the freezing point of the VOC.

In cases where the condenser outlet gas temperature is not readily measurable due to negligible gas flow rate, the temperature of the condenser coolant may be used in lieu of condenser outlet gas temperature as long as the temperature of the condenser coolant does not exceed the allowable condenser outlet gas temperature specified above.

The outlet gas temperature (or coolant temperature as noted above) shall be monitored and recorded at least once every 15 minutes, but no less than 4 times during the course of the unit operation for which it is being used. The monitoring device must be calibrated quarterly and must be operated at all times that the associated condenser is operating.



Parameter Monitored: TEMPERATURE

Upper Permit Limit: 10 degrees Centigrade (or Celsius)

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2008.

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

**Condition 76: Compliance Certification**  
**Effective between the dates of 06/23/2008 and Permit Expiration Date**

**Applicable Federal Requirement:**

**Expired by Mod 2**

**Item 76.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 0-00009

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

**Item 76.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Any synthesized pharmaceutical manufacturing process performed for production purposes (i.e., not for research & development), having an emission rate potential for VOC greater than 15 pounds per day, must control VOC emissions from reactors, extractors, distillation operations, crystallizers, centrifuges, and/or vacuum dryers using surface condensers as follows:

If the vapor pressure of the VOC involved is greater than 0.5 psi at 20 degrees C, the condenser outlet temperature must not exceed 25 degrees C (except where a lower condenser outlet temperature is specified elsewhere in this permit).

If the operation of a condenser at the exit temperature specified above results in freezing and consequent plugging of the condenser, the allowable exit temperature may be raised to a maximum of 2 degrees C above the freezing point of the VOC.

In cases where the condenser outlet gas temperature is not readily measurable due to negligible gas flow rate, the



temperature of the condenser coolant may be used in lieu of condenser outlet gas temperature as long as the temperature of the condenser coolant does not exceed the allowable condenser outlet gas temperature specified above.

The outlet gas temperature (or coolant temperature as noted above) shall be monitored and recorded at least once every 15 minutes, but no less than 4 times during the course of the unit operation for which it is being used. The monitoring device must be calibrated quarterly and must be operated at all times that the associated condenser is operating.

Parameter Monitored: TEMPERATURE

Upper Permit Limit: 25 degrees Centigrade (or Celsius)

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2008.

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

**Condition 77: Compliance Certification**  
**Effective between the dates of 06/23/2008 and Permit Expiration Date**

**Applicable Federal Requirement:**

**Expired by Mod 2**

**Item 77.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 0-00009

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

**Item 77.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Any synthesized pharmaceutical manufacturing process performed for production purposes (i.e., not for research & development), having an emission rate potential for VOC greater than 15 pounds per day, must control VOC emissions from reactors, extractors, distillation operations, crystallizers, centrifuges, and/or vacuum dryers using surface condensers as follows:



If the vapor pressure of the VOC involved is greater than 5.8 psi at 20 degrees C, the condenser outlet temperature must not exceed -25 degrees C.

If the operation of a condenser at the exit temperature specified above results in freezing and consequent plugging of the condenser, the allowable exit temperature may be raised to a maximum of 2 degrees C above the freezing point of the VOC.

In cases where the condenser outlet gas temperature is not readily measurable due to negligible gas flow rate, the temperature of the condenser coolant may be used in lieu of condenser outlet gas temperature as long as the temperature of the condenser coolant does not exceed the allowable condenser outlet gas temperature specified above.

The outlet gas temperature (or coolant temperature as noted above) shall be monitored and recorded at least once every 15 minutes, but no less than 4 times during the course of the unit operation for which it is being used. The monitoring device must be calibrated quarterly and must be operated at all times that the associated condenser is operating.

Parameter Monitored: TEMPERATURE

Upper Permit Limit: -25 degrees Centigrade (or Celsius)

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2008.

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

**Condition 78: Compliance Certification**

**Effective between the dates of 06/23/2008 and Permit Expiration Date**

**Applicable Federal Requirement:**

**Expired by Mod 2**

**Item 78.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 0-00009

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

**Item 78.2:**

Compliance Certification shall include the following monitoring:



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

Monitoring Description:

Any synthesized pharmaceutical manufacturing process performed for production purposes (i.e., not for research & development), having an emission rate potential for VOC greater than 15 pounds per day, must control VOC emissions from reactors, extractors, distillation operations, crystallizers, centrifuges, and/or vacuum dryers using surface condensers as follows:

If the vapor pressure of the VOC involved is greater than 2.9 psi at 20 degrees C, the condenser outlet temperature must not exceed -15 degrees C (except where a lower condenser outlet temperature is specified elsewhere in this permit).

If the operation of a condenser at the exit temperature specified above results in freezing and consequent plugging of the condenser, the allowable exit temperature may be raised to a maximum of 2 degrees C above the freezing point of the VOC.

In cases where the condenser outlet gas temperature is not readily measurable due to negligible gas flow rate, the temperature of the condenser coolant may be used in lieu of condenser outlet gas temperature as long as the temperature of the condenser coolant does not exceed the allowable condenser outlet gas temperature specified above.

The outlet gas temperature (or coolant temperature as noted above) shall be monitored and recorded at least once every 15 minutes, but no less than 4 times during the course of the unit operation for which it is being used. The monitoring device must be calibrated quarterly and must be operated at all times that the associated condenser is operating.

Parameter Monitored: TEMPERATURE

Upper Permit Limit: -15 degrees Centigrade (or Celsius)

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2008.

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

**Condition 82: Compliance Certification**

**Effective between the dates of 06/23/2008 and Permit Expiration Date**



**Applicable Federal Requirement:**

**Expired by Mod 2**

**Item 82.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 0-00009

Emission Point: 00144

**Item 82.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To mitigate annual ambient air impacts, the total number of batches produced, using the contaminants specified below, during any consecutive twelve month period (rolled monthly) shall be limited as specified in the attached Table entitled "Emission Unit No. 0-00009, Batch Restrictions for Contaminants with Potential Annual Ambient Impact Exceedences, 6-12-2001 version":

1,2-Dibromoethane (CAS #00106-93-4)  
2-Chloroacetonitrile (CAS #00107-14-2)  
Acetaldehyde (CAS #00075-07-0)  
Chlorine (CAS #07782-50-5)  
Chloroform (CAS #00067-66-3)  
Cyclopentyl Chloride (CAS #00930-28-9)  
Ethylene Dichloride (CAS #00107-06-2)  
Hydrazine (CAS #00302-01-2)  
Methylene Chloride (CAS #00075-09-2)  
Bromine (CAS #07726-95-6)  
Toluene (CAS #00108-88-3)

A written record of the number of above-referenced batches processed shall be maintained by the source owner. The running annual number of batches processed (rolled monthly), using each specified contaminant, shall not exceed the limit specified for that contaminant.

Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL CHANGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2008.

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

**Condition 83:**

**Compliance Certification**

**Effective between the dates of 06/23/2008 and Permit Expiration Date**

**Applicable Federal Requirement:**



**Expired by Mod 2**

**Item 83.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 0-00009

Emission Point: 00144

**Item 83.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

To mitigate ambient air impacts, the source owner or operator shall use vent condensers with a maximum outlet temperature of -25 degrees C to control emissions of the following contaminants:

1. 1,2-Dimethoxyethane (CAS #00110-71-4)
2. 1-Methyl Piperazine (CAS #00109-01-3)
3. 2-Methoxy Ethanol (CAS #00109-86-4)
4. 2-Methoxy Ethyl Ether (CAS #00111-96-6)
5. 3-Amino-1-Propanol (CAS #00156-87-6)
6. Acetic Acid (CAS #00064-19-7)
7. Acetonitrile (CAS #00075-05-8)
8. Benzyl Bromide (CAS #00100-39-0)
9. Bromotrimethylsilane (CAS #02857-97-8)
10. Cyclopentyl Bromide (CAS #00137-43-9)
11. Diethyl Phosphite (CAS #00762-04-9)
12. Diisopropylamine (CAS #00108-18-9)
13. Diisopropylethylamine (CAS #07087-68-5)
14. Dimethyl Formamide Dimethyl Acetal (CAS #04637-24-5)
15. Dioxane (CAS #00123-91-1)
16. Formic Acid (CAS #00064-18-6)
17. Isopropyl Amine (CAS #00075-31-0)
18. Methyl Formate (CAS #00107-31-3)
19. Methyl Iodide (CAS #00074-88-4)
20. Methyl-2-propionyl Acetate (CAS #30414-53-0)
21. N,N-Dimethylethylamine (CAS #00598-56-1)
22. N-Hexylamine (CAS #00111-26-2)
23. t-Butyl Chloroacetate (CAS #00107-59-5)
24. Trichloroethylene (CAS #00079-01-6)
25. Triethylamine (CAS #00121-44-8)
26. Trifluoroacetic Acid (CAS #00076-05-1)
27. Cyclohexanone (CAS #00108-94-1)
28. Ethanol (CAS #00064-17-5)
29. Hexane (CAS #00110-54-3)
30. Isopropyl Alcohol (CAS #00067-63-0)
31. Methanol (CAS #00067-56-1)
32. Tetrahydrofuran (CAS #00109-99-9)
33. Xylene (CAS #01330-20-7)

When product batches are run using these contaminants, the



outlet gas temperature of the refrigerated condenser used to control emissions shall be monitored and recorded at least once every 15 minutes, but no less than 4 times during the course of the unit operation for which it is being used. In cases where the condenser outlet gas temperature is not readily measurable due to negligible gas flow rate, the temperature of the condenser coolant may be used in lieu of condenser outlet gas temperature as long as the temperature of the condenser coolant does not exceed the allowable condenser outlet gas temperature specified above.

Parameter Monitored: TEMPERATURE

Upper Permit Limit: -25 degrees Centigrade (or Celsius)

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2008.

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

**Condition 84: Compliance Certification**  
**Effective between the dates of 06/23/2008 and Permit Expiration Date**

**Applicable Federal Requirement:**

**Expired by Mod 2**

**Item 84.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 0-00009

Emission Point: 00144

**Item 84.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

For all contaminants except for Chlorine, Bromine and Hydrazine (which are controlled to 99% via scrubbers), the batch limitations specified in the attached Table entitled "Emission Unit No. 0-00009, Batch Restrictions for Contaminants with Potential Annual Ambient Impact Exceedences, 6-12-2001 version" are based upon emissions calculated using a vent condenser exit temperature of -25 degrees C. Therefore, this condenser exit temperature shall not be exceeded when running processes involving those contaminants (i.e., all those in the Table except for Chlorine, Bromine and Hydrazine).



The condenser exit temperature shall be monitored and recorded at least once every 15 minutes, but no less than 4 times during the course of the unit operation for which it is being used. In cases where the condenser outlet gas temperature is not readily measurable due to negligible gas flow rate, the temperature of the condenser coolant may be used in lieu of condenser outlet gas temperature as long as the temperature of the condenser coolant does not exceed the allowable condenser outlet gas temperature specified above.

Parameter Monitored: TEMPERATURE

Upper Permit Limit: -25 degrees Centigrade (or Celsius)

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2008.

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



**STATE ONLY ENFORCEABLE CONDITIONS**

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

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

**This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability**

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

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

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

**STATE ONLY APPLICABLE REQUIREMENTS**

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

**Condition 90: Contaminant List  
Effective between the dates of 06/23/2008 and Permit Expiration Date**

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

**Item 90.1:**

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

CAS No: 000067-56-1  
Name: METHYL ALCOHOL

CAS No: 000075-09-2



Name: DICHLOROMETHANE

CAS No: 007446-09-5

Name: SULFUR DIOXIDE

CAS No: 007647-01-0

Name: HYDROGEN CHLORIDE

CAS No: 0NY075-00-0

Name: PARTICULATES

CAS No: 0NY075-00-5

Name: PM-10

CAS No: 0NY100-00-0

Name: HAP

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

CAS No: 0NY998-00-0

Name: VOC

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

**Condition 2-11: Compliance Demonstration  
Effective for entire length of Permit**

**Applicable State Requirement: 6NYCRR 212.4(a)**

**Item 2-11.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00009

**Item 2-11.2:**

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

Of the contaminants that may be emitted while performing processes permitted under this emission unit (EU #0-00009), the following non-VOCs are given an environmental rating of "B" per 6 NYCRR 212.9(a) Table 1. Per 6 NYCRR 212.9(b) Table 2, those with emission rate potentials (ERPs) between 20 and 100 pounds per hour shall have at least 91% control and those with ERPs between 100 and 500 pounds per hour shall have at least 94% control.



1. Methylene Chloride (CAS #00075-09-2)
2. Hydrogen Peroxide (CAS #07722-84-1)

In addition, the following non-VOC contaminants are given an environmental rating of "C" per 6 NYCRR 212.9(a) Table

1. Per 6 NYCRR 212.9(b) Table 2, those with ERPs between 100-500 pounds per hour shall have at least 85% control.

1. 1,1,1-Trichloroethane (CAS #00071-55-6)
2. Acetone (CAS #00067-64-1)

Because facility-wide ambient impacts for each of these contaminants were evaluated based upon all of the process emissions of that contaminant under this emission unit being controlled by vent condensers (ES Nos. 00194-00197) with a maximum outlet temperature specified in Appendix C, version 11-21-08, the owner or operator shall maintain this control when running processes involving these contaminants. The owner or operator shall demonstrate compliance with this temperature based on a 6-hour rolling average.

When product batches are run using these contaminants, the outlet gas temperature of the refrigerated condenser used to control emissions shall be monitored and recorded at least once every 15 minutes, but no less than 4 times during the course of the unit operation for which it is being used. In cases where the condenser outlet gas temperature is not readily measurable due to negligible gas flow rate, the temperature of the condenser coolant may be used in lieu of condenser outlet gas temperature as long as the temperature of the condenser coolant does not exceed the allowable condenser outlet gas temperature specified above.

Hydrogen Peroxide process emissions may also be controlled by scrubbers (ES Nos. 00325-00330) as permitted and specified in Appendix C.

Parameter Monitored: TEMPERATURE

Upper Permit Limit: Appendix C degrees Centigrade (or Celsius)

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 6-HOUR ROLLING AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 2-12: Compliance Demonstration**  
**Effective for entire length of Permit**



**Applicable State Requirement: 6NYCRR 212.4(a)**

**Item 2-12.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00009

**Item 2-12.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Of the contaminants that may be emitted while performing processes permitted under this emission unit (EU #00009), the following non-VOCs are given an environmental rating of "B" per 6 NYCRR 212.9(a), Table 1:

Ammonia (CAS #07664-41-7)

Hydrogen Peroxide (CAS #07722-84-1)

Hydrogen Bromide (CAS #10035-10-6)

Hydrogen Chloride (CAS #07647-01-0)

Per 6 NYCRR 212.9(b), Table 2, those with emission rate potentials (ERPs) between 20-100 pounds per hour shall have at least 91% control and those with ERPs between 100 and 500 pounds per hour shall have at least 94% control. Because facility-wide ambient impacts for each of these contaminants were evaluated based upon all process emissions of that contaminant under this emission unit being controlled by scrubbers (ES Nos. 00325-00330) to control efficiencies specified in Appendix C, version 11-21-08, the owner or operator shall maintain this control when running processes involving these contaminants.

In order to document the scrubber control efficiencies being achieved, source owner or operator shall maintain records of the following information for each unit operation performed using the above contaminants:

1. All physical data needed to determine the appropriate scrubber liquid composition.
2. The exhaust gas flow rate for the process being controlled by the scrubber.
3. The vapor-to-liquid flow ratio needed to achieve the required control efficiency.
4. The scrubber liquid flow rate maintained during the unit operation. This parameter shall be continuously monitored and recorded (at least once every 15 minutes)



for the duration of the unit operation.

5. The calculation method(s) used to determine the above scrubber operating parameters.

Hydrogen Peroxide process emissions may also be controlled by condensers (ES Nos. 00194-00197) as permitted and specified in Appendix C.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 93: Compliance Demonstration**  
**Effective between the dates of 06/23/2008 and Permit Expiration Date**

**Applicable State Requirement:**

**Expired by Mod 2**

**Item 93.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00009

**Item 93.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Of the contaminants that may be emitted while performing the processes permitted under this emission unit (EU #0-00009), the following non-VOC's are given an environmental rating of "B" per 6 NYCRR 212.9(a) Table 1:

1. Ammonia (CAS #07664-41-7)
2. Boron Trichloride (CAS #10294-34-5)
3. Hydrogen Bromide (CAS #10035-10-6)
4. Hydrogen Chloride (CAS #07647-01-0)

Per 6 NYCRR 212.9(b) Table 2, those with emission rate potentials (ERP's) between 10 and 20 pounds per hour shall have at least 90% control, those with ERP's between 20 and 100 pounds per hour shall have at least 91% control and those with ERP's between 100 and 500 pounds per hour shall have at least 94% control. The control efficiencies required for the above contaminants under 6 NYCRR 212.9(b) Table 2 are as follows:

1. Ammonia - 91%
2. Boron Trichloride - 90%



3. Hydrogen Bromide - 94%
4. Hydrogen Chloride - 91%

Boron Trichloride and Hydrogen Chloride, however, require further control in order to mitigate potential adverse ambient impacts. Per 6 NYCRR 200.6, these contaminants shall have at least 99% control for this reason.

Control of all contaminants noted above shall be achieved using scrubbers (ES Nos. 00325-00330).

In order to document the control efficiencies being achieved, source owner or operator shall maintain records of the following information for each unit operation performed using the above contaminants:

1. All physical data needed to determine the appropriate scrubber liquid composition.
2. The exhaust gas flow rate for the process being controlled by the scrubber.
3. The vapor-to-liquid flow ratio needed to achieve the required control efficiency.
4. The scrubber liquid flow rate maintained during the unit operation. This parameter shall be continuously monitored and recorded (at least once every 15 minutes) for the duration of the unit operation.
5. The calculation method(s) used to determine the above scrubber operating parameters.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2008.

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

**Condition 94: Compliance Demonstration**  
**Effective between the dates of 06/23/2008 and Permit Expiration Date**

**Applicable State Requirement:**

**Expired by Mod 2**

**Item 94.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00009

**Item 94.2:**



Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

Of the contaminants that may be emitted while performing processes permitted under this emission unit (EU #0-00009), the following non-VOC contaminants are given an environmental rating of "C" per 6 NYCRR 212.9(a) Table 1 and have emission rate potentials (ERP's) between 100-500 pounds per hour. Source owner shall provide at least 85% control for these contaminants, per 6 NYCRR 212.9(b) Table 2. Because facility-wide ambient impacts for these contaminants were evaluated based upon all of the process emissions under this emission unit being controlled by vent condensers (ES Nos. 00194-00197) with a maximum outlet temperature of -25 degrees C, source owner shall maintain this control when running processes involving these contaminants:

1. 1,1,1-Trichloroethane (CAS #00071-55-6)
2. Acetone (CAS #00067-64-1)

This will ensure at least 85% control of these contaminants, and will provide assurance that their facility-wide impacts will not exceed their respective ambient guideline concentrations as a result of emissions from this emission unit.

When product batches are run using these contaminants, the outlet gas temperature of the refrigerated condenser used to control emissions shall be monitored and recorded at least once every 15 minutes, but no less than 4 times during the course of the unit operation for which it is being used. In cases where the condenser outlet gas temperature is not readily measurable due to negligible gas flow rate, the temperature of the condenser coolant may be used in lieu of condenser outlet gas temperature as long as the temperature of the condenser coolant does not exceed the allowable condenser outlet gas temperature specified above.

Parameter Monitored: TEMPERATURE

Upper Permit Limit: -25 degrees Centigrade (or Celsius)

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING  
DESCRIPTION

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -  
SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2008.

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



