

**COMMONWEALTH OF PUERTO RICO / OFFICE OF GOVERNOR**



**TITLE V OPERATING PERMIT  
AIR QUALITY AREA  
ENVIRONMENTAL QUALITY BOARD**

**Permit Number: TV-3569-78-0397-0006**  
**Permit Application Received: March 25, 1997**  
**Issue and/or Effectiveness Date: September 15, 2003**  
**Expiration Date: September 15, 2008**

In accordance with the provisions of Part VI of the Regulation for the Control of Atmospheric Pollution (RCAP) and the Code of Federal Regulations, Title 40, Part 70

**SARTORIUS, INC.**

hereinafter referred to as The Permittee or **Sartorius, Inc.**, is authorized to operate a stationary source of air pollutants limited to the emission units and conditions described in this permit. Until such time as this permit expires, is modified or revoked, the permittee is allowed to discharge air pollutants from those processes and activities directly related to or associated with air pollutant sources in accordance with the requirements, limitations and conditions of this permit.

The conditions in this permit are federally and state enforceable. Requirements that are only state enforceable are identified as such in the permit. A copy of this permit shall be kept on-site at the mentioned above facility at all times.

**GREEN FORESTS AND CLEAR WATERS, CLEAN AIR AND WHITE CLOUDS:  
TAKE CARE OF LIFE, IF NOT YOU CONTAMINATE IT!**  
**NATIONAL PLAZA BUILDING, 431 PONCE DE LEON AVE., HATO REY, PUERTO RICO 00917**  
**P. O. BOX 11488 SANTURCE, PUERTO RICO 00910 TELEPHONE: 787-767-8181**

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## Section I - General Information

### A. Facility Information:

Name of the Company : **Sartorius North America, Inc.**

Mailing Address : **131 Heartland Boulevard**

City : **Edgewood**

State : **N.Y**

Zip Code : **11707**

Plant Name: **Sartorius, Inc.**

Plant Mailing Address: **P.O. Box 6, Yauco, P.R. 00698**

Plant Street Address: **Road PR-128 Int. Road PR-376, Yauco, Puerto Rico**

Responsible Officer: **Ulrich Schlapp**

Phone Number: **787- 856-5020**

Facility Contact Person : **Ulrich Schlapp**

Phone Number : **787- 856-5020**

Fax Number : **787- 856-1292**

Primary SIC Code : **3569** (*Cellulose Membrane Filter Manufacturing*)

### B. Description of Process

Sartorius, Inc is dedicated to the production of two types of cellulose membrane filters: Cellulose Acetate and Cellulose Nitrate.

For either membrane type, the cellulose dust is mixed with the corresponding solvents (*Methylene Chloride and Ethanol for cellulose acetate membranes, and Methyl Acetate and Isopropanol for cellulose Nitrate type*). The homogenized mix is routed into a casting machine that produces the membranes. The evaporated solvents are captured by means of a carbon adsorption unit and finally recovered in a recovery unit (*cellulose acetate production*) or burned on-site in an incineration system (*cellulose nitrate production*). Emissions are mostly fugitives, resulting from leaks in the recovery unit, casting room ventilation system and virgin solvent storage tanks. Annual Emissions of Methylene Chloride, a Hazardous Air Pollutant listed in the Section 112 (b) of the Clean Air Act, are above the mayor source threshold quantity.

## Section II - Description of Emission Units and Control Devices

A. The emission units regulated by this permit are the following:

Emission Unit ID	Description	Control Device
EU # 1	<u>Methylene Chloride (MeCl<sub>2</sub>) storage tank:</u> Type: <b>Horizontal / Fixed Roof</b> Capacity : <b>10,568 gallons (40 m<sup>3</sup>)</b>	N/A
EU # 2	<u>Ethanol (EtOH) storage tank:</u> Type: <b>Horizontal / Fixed Roof</b> Capacity: <b>10,568 gallons (40 m<sup>3</sup>)</b>	N/A
EU # 3	<u>Methyl Acetate (MeAc) storage tank:</u> Type: <b>Horizontal / Fixed Roof</b> Capacity: <b>4,300 gallons (14 m<sup>3</sup>)</b>	N/A
EU # 4	<u>Isopropanol (IPA) storage tank:</u> Type: <b>Horizontal / Fixed Roof</b> Capacity: <b>4,300 gallons (14 m<sup>3</sup>)</b>	N/A
EU # 5	<u>Mixing Room:</u> Composed of two (2) mixing tanks  <u>Tank No. 1</u> Capacity: <b>734 gallons (2.8 m<sup>3</sup>)</b> Material Storage: <b>mix of MeCl<sub>2</sub> and EtOH</b>  <u>Tank No. 2</u> Capacity: <b>734 gallons (2.8 m<sup>3</sup>)</b> Material Storage: <b>mix of MeAc and IPA</b>	N/A
EU # 6	<u>Casting Room:</u> Casting area: <b>150 ft x 20 ft</b> Capacity: <b>~85 m<sup>2</sup> of membrane/hr</b>	<u>Carbon adsorption unit</u> 96.45 % efficiency for EtOH and 99.98 % for MeCl <sub>2</sub> Used during <i>cellulose acetate membranes production.</i>  <u>Incinerator system</u> 97.5% efficiency for MeAc and IPA. Used during <i>cellulose nitrate membranes production</i>

Emission Unit ID	Description	Control Device
EU # 8	<u>Recovery Unit:</u> Capacity: <b>1176 cfm</b>	N/A
EU # 9	<u>Incinerator Burner:</u> Fuel type: <b>LPG</b> Max. design fuel usage rate: <b>24.0 gallons/hr</b>	N/A
EU # 14	<u>Steam Boiler (546 HP):</u> Fuel type: <b>Diesel</b> Max. design fuel usage rate: <b>12.0 gallons/hr</b>	N/A

### Section III – Permit Conditions

#### A. General Conditions

- 1- **Sanctions and Penalties:** The permittee is obligated to comply with all terms, conditions, requirements, limitations and restrictions set forth in this permit. Any violation of the terms of this permit will be subject to administrative, civil or criminal penalties as established in the Puerto Rico Environmental Public Policy Act, Article 17 (Act Number 9, June 18, 1970, as amended).
  
- 2- **Right of Entry:** As specified under Rules 103 and 603(c)(2) of the RCAP, the permittee shall allow the Board or an authorized representative, upon presentation of credentials and other documents as may be required by law, to perform the following activities:
  - a) Enter upon the permittee's premises where an emission source is located or where emissions related activities are conducted, or where records must be kept under the conditions of this permit, under the RCAP, or under the Clean Air Act;
  - b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit, under the RCAP, or under the Clean Air Act;
  - c) Inspect and examine any facility, equipment (including monitoring and air pollution control equipment), practices or operations (including QA/QC methods) regulated or required under this permit; as well as sampling emissions of air quality and fuels; and

- d) As authorized by the Clean Air Act and the RCAP, to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or other applicable requirements.
- 3- **Sworn Statement:** All reports required pursuant Rule 103(D) of the RCAP (i.e., semiannual monitoring reports and annual compliance certification) shall be submitted together with a sworn statement or affidavit by the Responsible Official or a duly authorized representative. Such sworn statement shall attest to the truth, correctness and completeness of such records and reports.
- 4- **Data Availability:** As specified under Rule 104 of the RCAP, all emission data obtained by or submitted to the Board, including data reported pursuant to Rule 103 of the RCAP, as well as that obtained in any other way, shall be available for public inspection and may also be made available to the public in any additional manner that the Board may deem appropriate.
- 5- **Emergency Plan:** As specified under Rule 107 of the RCAP, the permittee shall have available an Emergency Plan which must be consistent with adequate safety practices, and provides for the reduction or retention of the emissions from the plant during periods classified by the Board as air pollution alerts, warnings or emergencies. These plans shall identify the emission sources, include the reduction to be accomplished for each source, and the means by which such reduction will be accomplished. These plans will be available for any representative of the Board at any time.
- 6- **Control Equipment:** The permittee shall comply with Rule 108 of the RCAP, as follows:
  - a) All air pollution control equipment or control measures shall provide for continuous compliance with applicable rules and regulations. Such equipment or measures shall be installed, maintained, and operated according to those conditions imposed by the Board, within the specified operating limitations of the manufacturer.
  - b) The collected material from air pollution control equipment shall be disposed in accordance with applicable rules and regulations. The removal, manipulation, transportation, storage, treatment or disposal will be done in such or manner that shall not to produce environmental degradation, and in accordance with applicable rules and regulations.
  - c) The Board may require, when deemed appropriate to safeguard the health and welfare of human beings, the installation and maintenance of additional, complete and separate air pollution control equipment of a capacity equal to the capacity of the primary control equipment. Furthermore, the Board may require that such additional air pollution

control equipment be operated continuously and conjunctionally with the primary air pollution control equipment.

- d) All air pollution control equipment shall be operated at all times while the source being controlled is in operation.
- e) In the case of a shutdown of air pollution control equipment for the necessary scheduled maintenance, the intent to shutdown such equipment shall be reported to the Board at least three days prior to the planned shutdown. Such prior notice shall include, but is not limited to the following:
  - 1) Identification of the specific source to be taken out of service with its location and permit number.
  - 2) The expected length of time that the air pollution control equipment will be out of service.
  - 3) The nature and quantity of emissions of air pollutants likely to be permitted during the shutdown period.
  - 4) Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period.
  - 5) The reasons why it will be impossible or impractical to shutdown the operating source during the maintenance period.
- f) The permittee shall to the extent possible, maintain and operate at all times, including periods of start-up, shutdown and malfunction, any affected source and the associated air pollution control equipment, in a manner consistent with the original manufacturers design specifications and in compliance with applicable rules and regulations and permit conditions.
- g) The permittee shall maintain copies of all the monthly calibrations and inspections of the control equipments such as baghouses and scrubbers. The permittee shall record in a logbook all the periods when the control equipment is in shutdown and the process continues its operation. All the records shall be available to the EQB personnel.

7- **Compliance Certification:** As specified under Rules 112(B) and 603(c)(5) of the RCAP, the permittee shall submit a compliance certification, including the actual emissions calculations for the previous year, on the first day of April of

each year. The compliance certification shall be submitted to both the Board and the EPA<sup>3</sup>. It shall include, but is not limited to, the following information:

- a) identification of the applicable requirement that is the basis of the certification;
- b) the method used to determine the compliance status of the source;
- c) the compliance status;
- d) whether compliance is continuous or intermittent;
- e) such other facts as the EQB may require; and
- f) for purposes of (b) and (d) of this section, the Permittee shall identify the methods or other means used to determine the compliance status with each term and condition during the certification period, and whether such methods or other means provide continuous or intermittent data. If necessary, the Permittee shall also identify any other material information that must be included in the certification to comply with section 113(c)(2) of the Act, which prohibits knowingly making a false certification or omitting material information. For purposes of paragraph (c) of this section, the Permittee shall identify each deviation and take it into account in the compliance certification.

- 8- **Regulation Compliance:** As specified under Rule 115 of the RCAP, any violation to the RCAP, or to any other applicable rule or regulation, shall be grounds for the Board to suspend, modify, or revoke any relevant permit, approval, variance or other authorization issued by the Board.
- 9- **Location Approval:** As specified under Rule 201 of the RCAP, nothing in this permit shall be interpreted as authorizing the location or construction of a major stationary source, or the modification of a major stationary source, or a major modification of a significant source, without obtaining first a location approval from the Board and without first demonstrating compliance with the National Ambient Air Quality Standards (NAAQS). This permit does not allow the construction of new minor sources without the required permit under Rule 203 of the RCAP.
- 10- **Open Burning:** As specified under Rule 402 of the RCAP, Permittee shall not cause or permit the open burning of refuse in their premises except as established

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<sup>3</sup> The certification to the EQB shall be mailed to: Director, Air Quality Program, P O. Box 11488, Santurce, PR 00910. The certification to the EPA shall be mailed to: Chief, Permitting Section, Air Program Branch, EPA Region II, 290 Broadway, New York, NY, 10007

under Rule 402 (E) of the RCAP to conduct training or research of fire fighting techniques. The Permittee shall,

- a) keep records of fire fighting activities related to research or training. These records shall be kept and shall be made available upon request, and
- b) submit yearly to the Board a schedule for fire fighting activities related to research or training and notify the Board seven days in advance of each fire fighting activity.

11- **Particulate Fugitive Emissions:** As established in Rule 404 of the RCAP, the permittee shall not cause or permit:

- a) any materials to be handled, transported, or stored in a building, its appurtenances, or a road to be used, constructed, altered, repaired, or demolished, without taking reasonable precautions to prevent particulate matter from becoming airborne.
- b) the discharge of visible emissions of fugitive dust beyond the boundary line of the property on which the emissions originate.

12- **Objectionable Odors:** As specified under Rule 420 of the RCAP, the permittee shall not cause or permit emissions to the atmosphere of any matter which produces an *objectionable* odor that can be perceived in an area other than that designated for industrial purposes. The permittee shall demonstrate compliance with Rule 420 (A)(1) as follows: if malodors are detectable beyond the permittee property perimeter, and complaints are received, the permittee shall investigate and take measures to minimize and/or eliminate the malodors, if necessary.

13- **Permit Renewal Applications:** As established under Rule 602 (a)(1)(iv) of the RCAP, the permittee's applications for permit renewal shall be submitted at least 12 months prior to the date of permit expiration. A responsible official must certify all required applications consistent with paragraph (c)(3) of Rule 602.

14- **Permit Duration:** As specified under Rule 603 of the RCAP, the following terms will apply during the duration of this permit:

- a) **Effective Date:** This permit will become valid and in effect 60 days after it is signed by the Governing Board of the Environmental Quality Board, unless objected by EPA within their 45 day review period.
- b) **Expiration:** This authorization shall have a fixed term of 5 years. The expiration date will be automatically extended until the Board approves or denies a renewal application (Rule 605(c)(4)(ii) of the RCAP) but only in those cases where the permittee submits a complete renewal application at

least 12 months before the expiration date. [Rules 603 (a)(2), 605 (c)(2), and 605(c)(4) of the RCAP]

- c) Permit Shield: As specified under Rule 605 (c)(4)(i) of the RCAP, the permit shield may be extended until the time the permit is renewed if a timely and complete renewal application is submitted.
- d) In case that this permit is subject to any challenge by third parties, the permit shall remain in effect until the time it is revoked by a court of law with jurisdiction in the matter.

15- **Recordkeeping Requirement:** As established under Rule 603(a)(4)(ii) of the RCAP, the permittee shall retain records of all required monitoring data and support information for a period of 5 years from the date of the monitoring sample, measurement, report, or application.

16- **Reporting Requirement:** As established under Rule 603(a)(5)(i) of the RCAP, the permittee shall submit reports of all required monitoring every 6 months, or more frequently if required by the Board or any other underlying applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official as established under Rule 602(c)(3) of the RCAP.

17- **Deviations Reporting due to Emergencies:** As specified under Rule 603(a)(5)(ii)(a) of the RCAP, any deviation resulting from an upset (such as sudden malfunction or break-down) or emergency conditions, as defined in Rule 603(e) of the RCAP, must be reported within the next 2 working days. Such notification may be used to assert an affirmative defense upon an enforcement action against the permittee. If the permittee raises the emergency defense upon an enforcement action, the permittee shall demonstrate that such deviation happens due to an emergency and that the Board was adequately notified. If such emergency deviation last for more than 24 hours, the affected units may be operated until the end of the cycle or 48 hours, what occurs first. The Board may only extend the operation of an emission source in excess of 48 hours, if the source demonstrates to the Board's satisfaction that the National Air Quality Standards have not been exceeded and that there is no risk to the public health.

18- **Deviation Reporting (Hazardous Air Pollutants):** The source shall shut down its operations immediately or shall act as specified in its Emergency Response Plan (established in Rule 107 (C) of the RCAP), when such Plan has demonstrated that there is no significant impact at the fenceline. [This condition is enforceable only by the State]. Pursuant to Rule 603 (a)(5)(ii)(b), a notification will be required if a deviation occurs that results in the release of emissions of hazardous air pollutants for more than an hour in excess of the applicable limit. The permittee shall notify the Board within 24 hours of the deviation. For the discharge of any regulated air pollutant that continues for more than 2 hours in

excess of the applicable limit, the Permittee shall notify the Board within 24 hours of the deviation. The Permittee shall also submit to the Board, within seven (7) days of the deviation, a detailed written report that includes probable causes, time and duration of the deviation, remedial action taken, and steps that are being taken to prevent a reoccurrence.

- 19- **Severability Clause:** As established under Rule 603(a)(6) of the RCAP, the clauses in this permit are severable. In the event of a successful challenge to any portion of the permit in an administrative or judicial forum, or in the event any of its clauses is held to be invalid, all other portions of the permit shall remain valid and effective, including those related to emission limits, terms and conditions, be they specific or general, as well as monitoring, record keeping and reporting requirements.
- 20- **Permit Noncompliance:** As established under Rule 603(a)(7)(i) of the RCAP, the permittee must comply with all conditions of this permit. Permit noncompliance constitutes a violation of the RCAP and will be grounds for taking the appropriate enforcement action, impose sanctions, revoke, terminate, modify, and/or reissue the permit, or to deny a permit renewal application.
- 21- **Defense not Allowed:** As specified under Rule 603(a)(7)(ii) of the RCAP, it shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- 22- **Permit Modification and Revocation:** As specified under Rule 603(a)(7)(iii) of the RCAP, the permit may be modified, revoked, reopened, reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation, reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
- 23- **Property Rights:** As specified under Rule 603(a)(7)(iv) of the RCAP, this permit does not convey any property rights of any sort, nor does it grant any exclusive privilege.
- 24- **Obligation to Furnish Information:** As specified under Rule 603(a)(7)(v) of the RCAP, the permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit.
- 25- **Changes in Operating Scenarios:** As specified under Rule 603(a)(10) of the RCAP, the permittee shall record in a logbook, contemporaneously with making a

change from one operating scenario to another, the scenario under which it is operating. This logbook must be kept at the permittee's facility at all times.

- 26- **Prohibition on Default Issuance:** As specified under Rule 605(d) of the RCAP, it shall never be considered that a permit has been issued by default as a result of the Board's failure to take final action on a permit application within 18 months as of the application completeness date. The Board's failure to issue a final permit within 18 months should be treated as a final action solely for the purpose of obtaining judicial review in a state court.
- 27- **Administrative Permit Amendments and Permit Modifications:** As specified under Rule 606 of the RCAP, the permit shall not be amended nor modified unless the permittee complies with the requirements for administrative permit amendments and permit modifications as described in the RCAP.
- 28- **Administrative Permit Amendments and Permit Modifications:** As specified under Rule 606 of the RCAP, the permit shall not be amended nor modified unless the permittee complies with the requirements for administrative permit amendments and permit modifications as described in the RCAP
- a) Whenever additional applicable requirements under any law or regulation become applicable to the permittee, when the remaining permit term is of 3 or more years. Such reopening shall be completed 18 months after promulgation of said applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to Rule 605(c)(4)(i) or Rule 605(c)(4)(ii) of the RCAP.
  - b) Whenever the Board or EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emission standards or other terms or conditions of the permit.
  - c) Whenever the Board or EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
- 29- **Changes in Name and/or Ownership:** This permit is issued to **Sartorius, Inc.** In the event that the company and/or installation changes its name or is transferred to a different owner, the new responsible official must submit a sworn statement in which he/she accepts and promises to comply with all conditions of this permit.
- 30- **Renovation/Demolition Work:** The permittee shall comply with the provisions set forth in 40 CFR 61.145 and 61.150, and Rule 422 of the RCAP when conducting any renovation or demolition activities at the facility.

31- **Risk Management Plan:** If during the effectiveness of this permit, the permittee is subject to the 40 CFR part 68, he/she shall submit a Risk Management Plan according with the compliance schedule in the 40 CFR part 68.10. As part of the annual compliance certification required under 40 CFR part 70, the permittee shall submit a compliance certification with the requirements of Part 68, including the recordkeeping and the Risk Management Plan. The permittee shall comply with the general duty requirements of section 112(r)(1) of the Act as follows:

- a) Identify hazards that may result from accidental releases using appropriate hazard assessment techniques.
- b) Design, maintain, and operate a safe facility.
- c) Minimize the consequences of accidental releases if they occur.

32- **Requirements for Refrigerants (Climatologic and Stratospheric Ozone Protection):**

- a) In the event that the permittee has equipment or appliances, including air conditioning units, which use Class I or II refrigerants as defined in 40 CFR 82, Subpart A, Appendices A and B, he/she shall take the necessary measures to ensure that all maintenance, service or repair services performed are done so according to the practices, certification and personnel requirements, disposition requirements, and recycling and/or recovery equipment certification requirements specified under 40 CFR 82, Subpart F. Owners/ operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to §82.166.
- b) **Service on Motor Vehicles:** If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term motor vehicle as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term MVAC as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo or system used on passenger buses using HCFC-22 refrigerant.

33- **Labeling of Products Using Ozone-Depleting Substances:** The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E.

- c) All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to §82.106.
- b) The placement of the required warning statement must comply with the requirements pursuant to §82.108
- c) The form of the label bearing the required warning statement must comply with the requirements pursuant to §82.110.
- d) No person may modify, remove, or interfere with the required warning statement except as described in §82.112.

34- **Emergency Generators:**

- a) The operation for each emergency generator identified as insignificant activity is limited to 500 hours per year.
- b) The permittee shall keep an annual record of the hours of operation and fuel consumption for each generator. It shall be kept available at any time for inspection by EQB and EPA personnel.

35- **Roof Surface Coating:** This is a state-only requirement. The permittee shall not cause or permit the roof surface coating by applying hot tar or any other coating material containing organic compounds without previous notification to the Board. The use of used oil or hazardous waste for roof surface coating is prohibited. Operation of the source may start seven days after the notification for operation unless this notification is deemed incomplete or the operation will be in conflict with any Rule or Regulation.

36- **Compliance Clause:** Under no circumstances does compliance with this permit exempt the permittee from complying with all other applicable state or federal laws, regulations, permits, administrative orders or applicable court orders.

37- **Emissions Calculations:** The permittee shall submit, on the first day of April each year, the actual or permissible emissions calculations for the previous natural year. The emissions calculations shall be submitted on the forms prepared by the Board for this purpose and the responsible official must certify all the information submitted as true, correct and representative of the permitted activity. The permittee must make the applicable payment for the emissions calculations for the previous year on or before June 30 of each year.

38- **Annual fee:** As specified under Rule 610 of the RCAP, the permittee must submit an annual payment based on the emissions calculations for each regulated

pollutant. The payment will be based on their actual emissions at a rate of \$37.00 per ton, unless the Board decides otherwise as permitted under Rule 610(b)(2)(iv) of the RCAP. This payment for the previous year must be made on or before June 30 of each year.

39. **Reservation of Rights:** Except as expressly provided in this Title V permit:

- a) Nothing herein shall prevent EPA or the Board from taking administrative enforcement measures or seeking legal or equitable relief to enforce the terms of the Title V permit, including but not limited to the right to seek injunctive relief, and imposition of statutory penalties, fines and/or punitive damages.
- b) Nothing herein shall be construed to limit the rights of EPA or the Board to undertake any criminal enforcement activity against the permittee or any person.
- c) Nothing herein shall be construed to limit the authority of EPA or the Board to undertake any actions in response to conditions that present an imminent and substantial endangerment to public health or welfare, or the environment.
- d) Nothing herein shall be construed to limit the permittee's rights to administrative hearing and judicial appeal of termination/ revocation/ disputes over modification/ denial actions in accordance with regulations and the Environmental Public Policy Act.

**Section IV - Emission Limits**

A. The permittee shall not exceed the emission limits specified below in any consecutive twelve-month period. The emissions for any consecutive twelve-month period shall be calculated by adding the monthly emission caps of each unit to the total unit emissions for the previous eleven months.

<b>Pollutant</b>	<b>Emission limit (tons /year)</b>
<b>PM<sub>10</sub></b>	<b>0.78</b>
<b>SO<sub>2</sub></b>	<b>8.57</b>
<b>NO<sub>x</sub></b>	<b>11.58</b>
<b>VOC</b>	<b>65.41</b>
<b>CO</b>	<b>2.62</b>
<b>HAP (MeCl<sub>2</sub>)</b>	<b>127.42</b>

**Section V - Permit Terms**

**A. EU # 1 and EU # 2: Storage Tanks for MeCl<sub>2</sub> and EtOH, respectively:**

The following table contains a summary of all applicable requirements, as well as the test methods, for emission units identified as EU # 1 and EU # 2 in Section II of this permit.

Condition	Parameter	Value	Units	Test Method	Method Frequency	Record keeping Requirements	Reporting Frequency
VOC Emission limits	VOC emission rate	3	Pounds/hr	Emission calculations or documentation demonstrating exemption	Annual	Emission calculations or documentation demonstrating exemption	Annual
		15	Pounds/day				
Tank Capacity	Tank Capacity	<75	M <sup>3</sup>	Documentation demonstrating dimensions and capacity of the tanks	During the permit term	Documentation demonstrating dimensions and capacity of the tanks	Annual

**1- VOC Emission Limits:**

- a) As determined by Rule 419 of the RCAP, the permittee shall not permit the emission of 3 pounds of volatile organic compounds in any one hour, no more than 15 pounds in any day from an article, machine, equipment or any other contrivance unless it is provided with a control system, pollution prevention and reductions mechanism or programs or both, as approved or required by the Board. In that case, the permittee shall provide an acceptable control system for these units or established a program of prevention and reduction of VOC emissions no later than 180 days from the date of approval of this permit. **[This condition is enforceable only by the State]**

**2- Tank Capacity:**

- a) In order to demonstrate that the tanks are exempted from the requirements from the provisions of the 40 CFR, Part 60, Subpart Kb, the permittee shall keep, for the life of the source, readily accessible records showing the dimension of each storage tank and an analysis showing the capacity of each storage tank, as specified in Section 60.116b, paragraphs (b). As specified in 40 CFR, section 60.110b, paragraphs (b), storage tanks with design capacity less than 75 m<sup>3</sup> are exempt from the General Provisions (part 60, subpart A) and from the provisions of Subpart Kb.

**B. EU # 3 and EU # 4: Storage tanks for MeAc and IPA, respectively:**

The following table contains a summary of all applicable requirements, as well as the test methods, for emission units identified as EU # 3 and EU # 4 in Section II of this permit.

Condition	Parameter	Value	Units	Test Method	Method Frequency	Record keeping Requirements	Reporting Frequency
VOC Emission limit	VOC emission rate	3	lbs/hr	Emission calculations or documentation demonstrating that is exempt	Annual	Emission calculations or documentation demonstrating that is exempt	Annual
		15	lbs/day				

**1- VOC Emission Limits:**

- a) As determined by Rule 419 of the RCAP, the permittee shall not permit the emission of 3 pounds of volatile organic compounds in any one hour, no more than 15 pounds in any day from an article, machine, equipment or any other contrivance unless it is provided with a control system, pollution prevention and reductions mechanism or programs or both, as approved or required by the Board. In that case, the permittee shall provide an acceptable control system for these units or established a program of prevention and reduction of VOC emissions no later than 180 days from the date of approval of this permit. **[This condition is enforceable only by the State]**

**C. EU # 5, EU # 6 and EU # 8: Mixing Room Casting Room and Recovery Unit respectively**

Condition	Parameter	Value	Units	Test Method	Method Frequency	Record keeping Requirements	Reporting Frequency
Membranes production	Membrane area produced	cellulose acetate: 480,000	m <sup>2</sup> /year	Production records and purchase receipt	Monthly	Production records and purchase receipt	Annual
		cellulose nitrate: 108,000	m <sup>2</sup> /year				

**1- Membranes Production Limits:**

- (a) The permittee shall not exceed the production limit of 480,000 m<sup>2</sup> per year of cellulose acetate membranes and 108,000 m<sup>2</sup> per year of cellulose nitrate membranes.

(b) The permittee shall keep, for a period of five year, readily accessible records including the following information:

- (1) Number of lots produced per month and the area of membrane ( $m^2$ ) per lot.
- (2) Area of membrane produced per month ( $m^2$ )
- (3) Amount of each solvent (*gallons*) used per month.
- (4) The monthly emissions and the emissions in any consecutive twelve-month period. The emissions for any consecutive twelve-month period shall be calculated by adding the monthly emission of each unit to the total unit emissions for the previous eleven months.

**D. EU # 9: Incinerator Burner:**

Condition	Parameter	Value	Units	Test Method	Method Frequency	Record keeping Requirements	Reporting Frequency
Visible Emissions	Visible Emissions	20	Average Percent 6 minutes	Inspection of visible emissions	Weekly, every time the source is in operation	Weekly, every time the source is in operation	If an opacity reading is needed, submit a copy of the report at least 60 day after each reading
Fuel Consumption	LPG consumption rate	64,800	Gallons/year	Consumption record and purchase receipt	Monthly	Consumption record and purchase receipt	Annually

**1- Visible Emissions Limit:**

- a) The permittee shall not exceed the opacity limit of 20% in a 6 minutes average. Nevertheless, and as specified under Rule 403(A) of the RCAP, the permittee may discharge into the atmosphere visible emissions of opacity of up to 60% for a period of no more than 4 minutes in any consecutive 30 minutes period.
- b) The permittee shall perform a weekly opacity inspection, every time that the emission source is in operation. These inspections shall consist in a daily observation of the stack for a period of two minutes to determine if there are visible emissions present, excluding water vapor. The observer shall select a position of at least 15 feet, but less than 0.25 miles of the

source. The sunlight shall not focus directly in the observer's eyes. If emissions are observed, the permittee shall do the following:

- (1) Verify that the equipment and/or control equipment that is responsible of the visible emissions is operating according to the manufacturer's specification and the conditions of this permit. If it is not operating properly, corrective actions should be taken immediately to eliminate the excess of opacity.
  - (2) If the corrective actions do not correct the opacity problem in 24 hours, the permittee shall perform an opacity reading following Method 9 of the 40 CFR 60, Appendix A. The permittee shall hire during the next 24 hours after the violation, an independent opacity reader properly certified to perform these tests. The test shall be performing in every working shift until the problem has been corrected.
  - (3) Every deviation shall be informed to EQB in 24 hours.
  - (4) The permittee shall submit to the EQB a copy of the visible emissions readings report 60 days after each reading.
- c) As specified under Rule 603(A)(4)(ii) of the RCAP, the permittee shall keep all records of required monitoring data and supporting information for a period of five years from the date of the monitoring sample, measurement, report or application. This includes a record of visible emissions, which contains the dates and times of inspections, as well as information about any corrective measure taken.

**2- Fuel Consumption:**

- a) The permittee shall not exceed the fuel consumption limit of 64,800 gallons per year of LPG in EU # 9 for any period of 12 consecutive months. Fuel consumption for any 12 consecutive months shall be calculated by adding the monthly compounds consumption from the units during the preceding 11 month. [Attachment-A of the construction permit PFE-LC-03-78-0894-0045-I-III-C]
- b) The permittee shall keep the monthly LPG consumption and the consumption in any consecutive twelve-month period.
- c) The permittee shall submit the above information with the annual compliance certification.

**E. EU # 14: Boiler (546 HP capacity) :**

Condition	Parameter	Value	Units	Test Method	Method Frequency	Record Keeping Requirements	Reporting Frequency
Emission limit for particulate matter	Particulate matter	0.3	Lbs/MMBtu of heat input	Method 5	During the first year of the permit	Records of the test protocol, supporting information and final report	Test Protocol: 30 days prior to the start of the test Final Report: no more late than 60 days after the test
Visible Emissions	Visible Emissions	20	opacity percent 6 minutes Average	Method 9  Inspection of visible emissions	Once during first year of permit  Daily	Record of visible emissions  Record of date and time of inspections, results and any corrective action taken	Sixty 60 days after test day  Semiannually
SO <sub>2</sub> emission limit	Sulfur Content	0.5	Percent by weight	Supplier fuel analysis	With every purchase	Sulfur percent records and supplier fuel analysis	Monthly
Fuel Consumption	Fuel Oil # 2 (Diesel) consumption rate	105,120	Gallons/year	Consumption by a Flow meter	monthly	Consumption record and purchase receipt	Semiannually

**1- Particulate Matter Emission Limits:**

- a) The permittee shall not cause nor permit the emission of particulate matter, from any equipment burning solid or liquid fuel, in excess of 0.3 lb/MMBtu of heat input. [Rule 406 of the RCAP]
- b) In order to verify compliance with the established limit in the table above, the permittee shall perform a performance test using the Method 5 of the CFR Part 60 Appendix A during the first year of the permit. [Rule 602 (C)(2)(ix)(C) of the RCAP]
- c) As specified in Rule 603(A)(4)(ii) of the RCAP, the permittee shall retain all records for required monitoring and supporting information for a period of five years from the date of the monitoring sample, measurement, report or application.
- d) The permittee must submit to the EQB 30 days prior to the start of the test, a detailed test protocol describing all test equipment, procedures, and