

MAJOR SOURCE OPERATING PERMIT

PERMITTEE: TORAY FLUOROFIBERS AMERICA, INC.

FACILITY NAME: DECATUR PLANT

FACILITY/PERMIT NO.: 712-0086

LOCATION: DECATUR, MORGAN COUNTY, ALABAMA

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, Ala. Code §§ 22-28-1 to 22-28-23, as amended, the Alabama Environmental Management Act, Ala. Code §§ 22-22A-1 to 22-22A-17, as amended, and rules and regulations adopted there under, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.

*Pursuant to the **Clean Air Act of 1990**, all conditions of this permit are federally enforceable by EPA, the Alabama Department of Environmental Management, and citizens in general. Those provisions which are not required under the **Clean Air Act of 1990** are considered to be state permit provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate sections of this permit.*

Issuance Date: DRAFT

Effective Date: DRAFT

Expiration Date: DRAFT

TABLE OF CONTENTS

GENERAL PERMIT PROVISOS	1
1. <i>Transfer</i>	<i>1</i>
2. <i>Renewals</i>	<i>1</i>
3. <i>Severability Clause</i>	<i>1</i>
4. <i>Compliance</i>	<i>1</i>
5. <i>Termination for Cause</i>	<i>2</i>
6. <i>Property Rights</i>	<i>2</i>
7. <i>Submission of Information</i>	<i>2</i>
8. <i>Economic Incentives, Marketable Permits, and Emissions Trading</i>	<i>2</i>
9. <i>Certification of Truth, Accuracy, and Completeness</i>	<i>2</i>
10. <i>Inspection and Entry</i>	<i>2</i>
11. <i>Compliance Provisions</i>	<i>3</i>
12. <i>Compliance Certification</i>	<i>3</i>
13. <i>Reopening for Cause</i>	<i>4</i>
14. <i>Additional Rules and Regulations</i>	<i>4</i>
15. <i>Equipment Maintenance or Breakdown</i>	<i>5</i>
16. <i>Operation of Capture and Control Devices</i>	<i>5</i>
17. <i>Obnoxious Odors</i>	<i>6</i>
18. <i>Fugitive Dust</i>	<i>6</i>
19. <i>Additions and Revisions</i>	<i>6</i>
20. <i>Recordkeeping Requirements</i>	<i>6</i>
21. <i>Reporting Requirements</i>	<i>7</i>
22. <i>Emission Testing Requirements</i>	<i>7</i>
23. <i>Payment of Emission Fees</i>	<i>8</i>
24. <i>Other Reporting and Testing Requirements</i>	<i>8</i>
25. <i>Title VI Requirements (Refrigerants)</i>	<i>8</i>
26. <i>Chemical Accidental Prevention Provisions</i>	<i>9</i>
27. <i>Display of Permit</i>	<i>9</i>
28. <i>Circumvention</i>	<i>9</i>
29. <i>Visible Emissions</i>	<i>9</i>
30. <i>Fuel-Burning Equipment</i>	<i>10</i>
31. <i>Process Industries – General</i>	<i>10</i>
32. <i>Averaging Time for Emission Limits</i>	<i>10</i>
33. <i>Open Burning</i>	<i>10</i>
34. <i>Permit Shield</i>	<i>10</i>
 OPERATING PERMIT SUMMARY NO. 1	
EMISSION UNIT NO. 001 (FLUOROCARBON MANUFACTURING PROCESS)	11
Summary Page	11
Unit Specific Provisos	12
1. Applicability	12
2. Emission Standards	12
3. Compliance and Performance Test Methods and Procedures	12
4. Emission Monitoring	13
5. Recordkeeping and Reporting Requirements	13

OPERATING PERMIT SUMMARY NO. 2

EMISSION UNIT NO. 002 (BLEACHING PROCESS) 14

Summary Page 14

Unit Specific Provisos..... 15

1. Applicability 15

2. Emission Standards 15

3. Compliance and Performance Test Methods and Procedures 15

4. Emission Monitoring..... 16

5. Recordkeeping and Reporting Requirements..... 16

General Permit Provisos	
Federally Enforceable Provisos	Regulations
1. <u>Transfer</u> This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another, except as provided in ADEM Admin. Code r. 335-3-16-.13(1)(a)5. 2. <u>Renewals</u> An application for permit renewal shall be submitted at least six (6) months, but not more than eighteen (18) months, before the date of expiration of this permit. The source for which this permit is issued shall lose its right to operate upon the expiration of this permit unless a timely and complete renewal application has been submitted within the time constraints listed in the previous paragraph. 3. <u>Severability Clause</u> The provisions of this permit are declared to be severable and if any section, paragraph, subparagraph, subdivision, clause, or phrase of this permit shall be adjudged to be invalid or unconstitutional by any court of competent jurisdiction, the judgment shall not affect, impair, or invalidate the remainder of this permit, but shall be confined in its operation to the section, paragraph, subparagraph, subdivisions, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered. 4. <u>Compliance</u> (a) The permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee. (b) The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.	ADEM Admin. Code r. 335-3-16-.02(6) ADEM Admin. Code r. 335-3-16-.12(2) ADEM Admin. Code r. 335-3-16-.05(e) ADEM Admin. Code r. 335-3-16-.05(f) ADEM Admin. Code r. 335-3-16-.05(g)

General Permit Provisos	
Federally Enforceable Provisos	Regulations
5. <u>Termination for Cause</u> 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 will not stay any permit condition.	ADEM Admin. Code r. 335-3-16-.05(h)
6. <u>Property Rights</u> The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.	ADEM Admin. Code r. 335-3-16-.05(i)
7. <u>Submission of Information</u> The permittee must submit to the Air Division, within 30 days or for such other reasonable time as the Air Division may set, any information that the Air Division may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Air Division copies of records required to be kept by this permit.	ADEM Admin. Code r. 335-3-16-.05(j)
8. <u>Economic Incentives, Marketable Permits, and Emissions Trading</u> No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.	ADEM Admin. Code r. 335-3-16-.05(k)
9. <u>Certification of Truth, Accuracy, and Completeness</u> Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. 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.	ADEM Admin. Code r. 335-3-16-.07(a)
10. <u>Inspection and Entry</u> Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of Environmental Management and EPA to conduct the following: (a) Enter upon the permittee's premises where a source is located or emissions-related activity is conducted, or where records must be kept pursuant to the conditions of this permit;	ADEM Admin. Code r. 335-3-16-.07(b)

General Permit Provisos	
Federally Enforceable Provisos	Regulations
(b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit; (c) Inspect, at reasonable times, this facility's equipment (including monitoring equipment and air pollution control equipment), practices, or operations regulated or required pursuant to this permit; (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements. <u>11. Compliance Provisions</u> (a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance. (b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit. <u>12. Compliance Certification</u> The permittee shall submit a complete and accurate compliance certification by February 28th of each year for each reporting period of this permit (January 1st – December 31st). (a) The compliance certification shall include the following: (1) The identification of each term or condition of this permit that is the basis of the certification; (2) The compliance status; (3) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with ADEM Admin. Code r. 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements); (4) Whether compliance has been continuous or intermittent; (5) Such other facts as the Air Division may require to determine the compliance status of the source; (b) The compliance certification shall be submitted to:	ADEM Admin. Code r. 335-3-16-.07(c) ADEM Admin. Code r. 335-3-16-.07(e)

General Permit Provisos	
Federally Enforceable Provisos	Regulations
Alabama Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463 and to: EPA Region 4 via email at EPA_R4_CAA_Reports@epa.gov or through the EPA's Compliance and Emissions Data Reporting Interface (CEDRI) 13. <u>Reopening for Cause</u> Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit: (a) Additional applicable requirements under the Clean Air Act of 1990 become applicable to the permittee with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (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. (b) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit. (c) The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit. (d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements. 14. <u>Additional Rules and Regulations</u> This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.	ADEM Admin. Code r. 335-3-16-.13(5) §22-28-16(d), <u>Code of Alabama 1975</u>, as amended

General Permit Provisos	
Federally Enforceable Provisos	Regulations
<u>15. Equipment Maintenance or Breakdown</u>	
(a) In case of shutdown of air pollution control equipment (which operates pursuant to any permit issued by the Director) for necessary scheduled maintenance, the intent to shut down such equipment shall be reported to the Air Division at least (24) hours prior to the planned shutdown, unless such shutdown is accompanied by the shutdown of the source which such equipment is intended to control. Such prior notice shall include, but is not limited to the following: (1) Identification of the specific facility to be taken out of service as well as 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 quality of emissions of air contaminants likely to occur 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 that it would be impossible or impractical to shut down the sources operation during the maintenance period. (b) In the event that there is a breakdown of equipment or upset of process in such a manner as to cause, or is expected to cause, increased emissions of air contaminants which are above an applicable standard, the person responsible for such equipment shall notify the Director within 24 hours or the next working day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The Director will be notified when the breakdown has been corrected.	ADEM Admin. Code r. 335-3-1-.07(1),(2)
<u>16. Operation of Capture and Control Devices</u>	
All air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.	§22-28-16(d), <u>Code of Alabama 1975</u>, as amended

General Permit Provisos	
Federally Enforceable Provisos	Regulations
<u>17. Obnoxious Odors</u> This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible. <u>18. Fugitive Dust</u> (a) Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc. (b) Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds: (1) By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic; (2) By reducing the speed of vehicular traffic to a point below that at which dust emissions are created; (3) By paving; (4) By the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions. Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Air Division prior to utilization. <u>19. Additions and Revisions</u> Any modifications to this source shall comply with the modification procedures in ADEM Admin. Code r. 335-3-16-.13 or 335-3-16-.14. <u>20. Recordkeeping Requirements</u> (a) Records of required monitoring information of the source shall include the following:	ADEM Admin. Code r. 335-3-1-.08 ADEM Admin. Code r. 335-3-4-.02 ADEM Admin. Code r. 335-3-16-.13 and 335-3-16-.14 ADEM Admin. Code r. 335-3-16-.05(c)2.

General Permit Provisos	
Federally Enforceable Provisos	Regulations
(1) The date, place, and time of all sampling or measurements; (2) The date analyses were performed; (3) The company or entity that performed the analyses; (4) The analytical techniques or methods used; (5) The results of all analyses; and (6) The operating conditions that existed at the time of sampling or measurement. (b) Retention of records of all required monitoring data and support information of the source for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by the permit. 21. Reporting Requirements (a) Reports to the Air Division of any required monitoring shall be submitted at least every 6 months. All instances of deviations from permit requirements must be clearly identified in said reports. All required reports must be certified by a responsible official consistent with ADEM Admin. Code r. 335-3-16-.04(9). (b) Deviations from permit requirements shall be reported within 48 hours or 2 working days of such deviations, including those attributable to upset conditions as defined in the permit. The report will include the probable cause of said deviations, and any corrective actions or preventive measures that were taken. 22. Emission Testing Requirements Each point of emission which requires testing will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised. The Air Division must be notified in writing at least 10 days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations. To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:	ADEM Admin. Code r. 335-3-16-.05(c)3. ADEM Admin. Code r. 335-3-1-.05(3) and 335-3-1-.04(1) ADEM Admin. Code r. 335-3-1-.04

General Permit Provisos	
Federally Enforceable Provisos	Regulations
(a) The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests. (b) A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedures requires probe cleaning). (c) A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity. (d) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances. A pretest meeting may be held at the request of the source owner or the Air Division. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis. All test reports must be submitted to the Air Division within 30 days of the actual completion of the test unless an extension of time is specifically approved by the Air Division. 23. Payment of Emission Fees (a) The permittee shall remit the annual Operating Permit Fees required by ADEM Admin. Code r. 335-1-7-.04 according to the schedule in ADEM Admin. Code r. 335-1-7-.05. (b) The permittee shall submit its estimate of actual emissions for the previous calendar year according to the schedule in ADEM Admin. Code r. 335-1-7-.05. 24. Other Reporting and Testing Requirements Submission of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require emission testing at any time. 25. Title VI Requirements (Refrigerants) Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances as listed in 40 CFR Part 82, Subpart A, Appendices A and B, shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82, Subpart F.	ADEM Admin. Code r. 335-3-1-.04 ADEM Admin. Code r. 335-1-7-.04 ADEM Admin. Code r. 335-1-7-.05 ADEM Admin. Code r. 335-3-1-.04(1) ADEM Admin. Code r. 335-3-16-.05(a)

General Permit Provisos	
Federally Enforceable Provisos	Regulations
No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F. The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR §82.166. Reports shall be submitted to the US EPA and the Department as required. <u>26. Chemical Accidental Prevention Provisions</u> If a chemical listed in Table 1 of 40 CFR §68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then: (a) The owner or operator shall comply with the provisions in 40 CFR Part 68. (b) The owner or operator shall submit one of the following: (1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR § 68.10(a) or, (2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan. <u>27. Display of Permit</u> This permit shall be kept under file or on display at all times at the site where the facility for which the permit is issued is located and will make the permit readily available for inspection by any or all persons who may request to see it. <u>28. Circumvention</u> No person shall cause or permit the installation or use of any device or any means which, without resulting in the reduction in the total amount of air contaminant emitted, conceals or dilutes any emission of air contaminant which would otherwise violate the Division 3 rules and regulations. <u>29. Visible Emissions</u> Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.	40 CFR Part 68 ADEM Admin. Code r. 335-3-16-.02(2) ADEM Admin. Code r. 335-3-1-.10 ADEM Admin. Code r. 335-3-4-.01(1)

General Permit Provisos	
Federally Enforceable Provisos	Regulations
<u>30. Fuel-Burning Equipment</u> Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge particulate emissions in excess of the emissions specified in ADEM Admin. Code r. 335-3-4-.03. Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide emissions in excess of the emissions specified in ADEM Admin. Code r. 335-3-5-.01. <u>31. Process Industries – General</u> Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in ADEM Admin. Code r. 335-3-4-.04. <u>32. Averaging Time for Emission Limits</u> Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method. <u>33. Open Burning</u> Precautions should be taken to ensure that no person shall ignite, cause to ignite, permit to be ignited, or maintain any open fire in such a manner as to cause the Department's rules and regulations applicable to open burning to be violated. <u>34. Permit Shield</u> A permit shield exists under this operating permit in accordance with ADEM Administrative Code r. 335-3-16-.10 in that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance. The permit shield is based on the accuracy of the information supplied in Regulatory Review Section of the application for this permit. Under this shield, it has been determined that requirements listed as non-applicable in such section are not applicable to this source.	ADEM Admin. Code r. 335-3-4-.03 ADEM Admin. Code r. 335-3-5-.01 ADEM Admin. Code r. 335-3-4-.04 ADEM Admin. Code r. 335-3-1-.05 ADEM Admin. Code r. 335-3-3-.01 ADEM Admin. Code r. 335-3-16-.10

Operating Permit Summary No. 1

Summary Page

Emission Unit: 001 Fluorocarbon Manufacturing Process

Description: PTFE fiber manufacturing with Wet Suppression System (Duct Spray and Scrubber combined) controls

Permitted Operating Schedule: $\frac{24 \text{ Hours}}{\text{Day}} \times \frac{365 \text{ Days}}{\text{Year}} = \frac{8760 \text{ Hours}}{\text{Year}}$

Emission Limitations:

Emission Point No.	Description	Pollutant	Emission Limit	Regulation
001	Wet Suppression System stack	PM	$E = 3.59(P^{0.62})$, $P < 30 \text{ tons/hr}$	ADEM Admin. Code R. 335-3-4-.04(1)
		Opacity	Not more than one 6-minute average opacity greater than 20% in any 60-minute period and no 6-minute average opacity greater than 40%	ADEM Admin. Code R. 335-3-4-.01
		VOC	80% removal efficiency as indicated by a differential pressure between 0.1 to 15.0 in. H ₂ O and water flowrate between 10.0 to 25.0 gpm	ADEM Admin. Code R. 335-3-1-.04

Emission Unit No. 001 (Fluorocarbon Manufacturing Process)
Unit Specific Provisos

Federally Enforceable Provisos	Regulations
1. <u>Applicability</u> (a) This unit is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, "Major Source Operating Permits." (b) This unit is subject to the particulate emission rate limits for Process Industries – General, Class I Counties. (c) This unit is subject to the opacity emission rate limits. 2. <u>Emission Standards</u> (a) This unit shall not discharge into the atmosphere particulate matter in any one hour in excess of: $E = 3.59(P^{0.62})$ where P is the process weight in tons/hr, and E is the particulate emission rate in lbs/hr. (b) This unit shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge into the atmosphere opacity not exceeding forty percent (40%). 3. <u>Compliance and Performance Test Methods and Procedures</u> (a) Method 5 as defined in 40 CFR 60, Appendix A shall be used in the determination of particulate emissions from the stack. (b) Method 9 as defined in 40 CFR 60, Appendix A shall be used in the determination of the opacity of the stack emissions. (c) Method 18 or 25A as defined in 40 CFR 60, Appendix A shall be used in the determination of VOC emissions from the stack.	ADEM Admin. Code r. 335-3-16-.03 ADEM Admin. Code r. 335-3-4-.04(1) ADEM Admin. Code r. 335-3-4-.01 ADEM Admin. Code r. 335-3-4-.04(1) ADEM Admin. Code r. 335-3-4-.01 ADEM Admin. Code r. 335-3-1-.05 ADEM Admin. Code r. 335-3-1-.05 ADEM Admin. Code r. 335-3-1-.05

Federally Enforceable Provisos	Regulations
4. <u>Emission Monitoring</u> (a) The Wet Suppression System (Duct Spray and Scrubber combined) with this process shall maintain a removal efficiency of at least eighty percent (80%) for VOCs. The differential pressure and water flowrate to the scrubber shall be monitored to indicate compliance. The range for the differential pressure shall be between 0.1 to 15.0 inches of water and the range for the scrubber water flowrate shall be between 10.0 to 25.0 gallons per minute. The differential pressure and water flowrate shall be monitored at least once every twelve (12) hours with daily readings and twelve (12) hour monitoring records used to indicate compliance. (b) This process shall vent to the scrubber and operate only when the scrubber is operating. Otherwise, this process shall cease operations. 5. <u>Recordkeeping and Reporting Requirements</u> (a) This process shall have records kept of the differential pressure and water flowrate to the scrubber. These records shall be maintained in a form suitable for inspection for a period of at least five (5) years. (b) This process shall have records kept of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the process equipment and any malfunction of the air pollution control equipment. These records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	ADEM Admin. Code r. 335-3-1-.04 ADEM Admin. Code r. 335-3-1-.04 ADEM Admin. Code r. 335-3-1-.04 ADEM Admin. Code r. 335-3-1-.04

Operating Permit Summary No. 2

Summary Page

Emission Unit: 002 Bleaching Process

Description: PTFE fiber bleaching using three electric ovens (#2, #3, and #4) with Catalyst Treatment System oven control

Permitted Operating Schedule: $\frac{24 \text{ Hours}}{\text{Day}} \times \frac{365 \text{ Days}}{\text{Year}} = \frac{8760 \text{ Hours}}{\text{Year}}$

Emission Limitations:

Emission Point No.	Description	Pollutant	Emission Limit	Regulation
002	Catalyst Treatment System stack	PM	$E = 3.59(P^{0.62})$, $P < 30 \text{ tons/hr}$	ADEM Admin. Code R. 335-3-4-.04(1)
		Opacity	Not more than one 6-minute average opacity greater than 20% in any 60-minute period and no 6-minute average opacity greater than 40%	ADEM Admin. Code R. 335-3-4-.01
		VOC	N/A	N/A

Emission Unit No. 002 (Bleaching Process)

Unit Specific Provisos

Federally Enforceable Provisos	Regulations
1. <u>Applicability</u> (a) These units are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, "Major Source Operating Permits." (b) These units are subject to the particulate emission rate limits for Process Industries – General, Class I Counties. (c) These units are subject to the opacity emission rate limits. 2. <u>Emission Standards</u> (a) This unit shall not discharge into the atmosphere particulate matter in any one hour in excess of: $E = 3.59(P^{0.62})$ where P is the process weight in tons/hr, and E is the particulate emission rate in lbs/hr. (b) This unit shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge into the atmosphere opacity not exceeding forty percent (40%). 3. <u>Compliance and Performance Test Methods and Procedures</u> (a) Method 5 as defined in 40 CFR 60, Appendix A shall be used in the determination of particulate emissions from the stack. (b) Method 9 as defined in 40 CFR 60, Appendix A shall be used in the determination of the opacity of the stack emissions. (c) Method 18 or 25A as defined in 40 CFR 60, Appendix A shall be used in the determination of VOC emissions from the stack.	ADEM Admin. Code r. 335-3-16-.03 ADEM Admin. Code r. 335-3-4-.04(1) ADEM Admin. Code r. 335-3-4-.01 ADEM Admin. Code r. 335-3-4-.04(1) ADEM Admin. Code r. 335-3-4-.01 ADEM Admin. Code r. 335-3-1-.05 ADEM Admin. Code r. 335-3-1-.05 ADEM Admin. Code r. 335-3-1-.05

Federally Enforceable Provisos	Regulations
4. <u>Emission Monitoring</u> (a) This process shall vent to the catalyst treatment system. (b) The ovens associated with this process shall be monitored daily for visible emissions. When observed visible emissions are determined to be greater than normal, corrective action to minimize emissions shall be taken within twenty-four (24) hours, followed by an additional observation to confirm that emissions are reduced to normal. 5. <u>Recordkeeping and Reporting Requirements</u> (a) This unit shall keep records of the daily visible emission observations required in Proviso 4.b. These records shall also include the nature and date of any maintenance actions taken to correct excess opacity episodes. These records shall be kept in a form suitable for inspection and retained for at least five (5) years.	ADEM Admin. Code r. 335-3-1-.04 ADEM Admin. Code r. 335-3-1-.04 ADEM Admin. Code r. 335-3-1-.04