



# MAJOR SOURCE OPERATING PERMIT

**PERMITTEE:** FIBER GLASS SYSTEMS L.P.

**FACILITY NAME:** FIBER GLASS SYSTEMS L.P. GRAND BAY FACILITY

**FACILITY/PERMIT NO.:** 503-0084

**LOCATION:** GRAND BAY, 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:**

**Effective Date:**

**Expiration Date:**

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Alabama Department of Environmental Management

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## General Permit Provisos

Federally Enforceable Provisos	Regulations
<p><b>1. <u>Transfer</u></b></p> <p>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 Rule 335-3-16-13(1)(a)5.</p> <p><b>2. <u>Renewals</u></b></p> <p>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.</p> <p>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.</p> <p><b>3. <u>Severability Clause</u></b></p> <p>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, subdivision, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.</p> <p><b>4. <u>Compliance</u></b></p> <p>(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.</p> <p>(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.</p> <p><b>5. <u>Termination for Cause</u></b></p> <p>This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit</p>	<p>Rule 335-3-16-.02(6)</p> <p>Rule 335-3-16-.12(2)</p> <p>Rule 335-3-16-.05(e)</p> <p>Rule 335-3-16-.05(f)</p> <p>Rule 335-3-16-.05(g)</p> <p>Rule 335-3-16-.05(h)</p>

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<p>modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.</p>	
<p>6. <b><u>Property Rights</u></b></p>	
<p>The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.</p>	<p>Rule 335-3-16-.05(i)</p>
<p>7. <b><u>Submission of Information</u></b></p>	
<p>The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department 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 Department copies of records required to be kept by this permit.</p>	<p>Rule 335-3-16-.05(j)</p>
<p>8. <b><u>Economic Incentives, Marketable Permits, and Emissions Trading</u></b></p>	
<p>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.</p>	<p>Rule 335-3-16-.05(k)</p>
<p>9. <b><u>Certification of Truth, Accuracy, and Completeness:</u></b></p>	
<p>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.</p>	<p>Rule 335-3-16-.07(a)</p>
<p>10. <b><u>Inspection and Entry</u></b></p>	
<p>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:</p> <p>(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;</p>	<p>Rule 335-3-16-.07(b)</p>

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<ul style="list-style-type: none"> <li>(b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit;</li> <li>(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;</li> <li>(d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements.</li> </ul>	
<p><b>11. <u>Compliance Provisions</u></b></p> <ul style="list-style-type: none"> <li>(a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance.</li> <li>(b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit.</li> </ul>	<p>Rule 335-3-16-.07(c)</p>
<p><b>12. <u>Compliance Certification</u></b></p> <p>A compliance certification shall be submitted annually within 60 days of the anniversary date of issuance of this permit, or within an alternative timeline approved by the Director.</p> <ul style="list-style-type: none"> <li>(a) The compliance certification shall include the following: <ul style="list-style-type: none"> <li>(1) The identification of each term or condition of this permit that is the basis of the certification;</li> <li>(2) The compliance status;</li> <li>(3) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements);</li> <li>(4) Whether compliance has been continuous or intermittent;</li> <li>(5) Such other facts as the Department may require to determine the compliance status of the source;</li> </ul> </li> <li>(b) The compliance certification shall be submitted to the Air and EPCRA Enforcement Branch at EPA, Region IV through the Compliance and Emissions Data Reporting Interface (CEDRI)</li> </ul>	<p>Rule 335-3-16-.07(e)</p>

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<p>located on EPA's Central Data Exchange (CDX), and should also be mailed to the Alabama Department of Environmental Management's Air Division at P.O. Box 301463, Montgomery, AL 36130-1463.</p>	
<p><b>13. <u>Reopening for Cause</u></b></p> <p>Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit:</p> <ul style="list-style-type: none"> <li>(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.</li> <li>(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.</li> <li>(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.</li> <li>(d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.</li> </ul>	<p>Rule 335-3-16-.13(5)</p>
<p><b>14. <u>Additional Rules and Regulations</u></b></p> <p>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.</p>	<p>§22-28-16(d), Code of Alabama 1975, as amended</p>
<p><b>15. <u>Equipment Maintenance or Breakdown</u></b></p> <ul style="list-style-type: none"> <li>(a) In the case of shutdown for more than one (1) hour 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 Director at least twenty-four (24) hours prior to</li> </ul>	<p>Rule 335-3-1-.07(1), (2)</p>

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<p>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:</p> <ul style="list-style-type: none"> <li>(1) Identification of the specific facility to be taken out of service as well as its location and permit number;</li> <li>(2) The expected length of time that the air pollution control equipment will be out of service;</li> <li>(3) The nature and quantity of emissions of air contaminants likely to occur during the shutdown period;</li> <li>(4) Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period;</li> <li>(5) The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period.</li> </ul> <p>(b) In the event that there is a breakdown of equipment or upset of process for a period exceeding one (1) hour 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 shall be notified when the breakdown has been corrected.</p>	
<p><b>16. <u>Operation of Capture and Control Devices</u></b></p> <p>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.</p>	<p>§22-28-16(d), Code of Alabama 1975, as amended</p>
<p><b>17. <u>Obnoxious Odors</u></b></p> <p>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</p>	<p>Rule 335-3-1-.08</p>



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<p>Management that these measures are technically and economically feasible.</p>	
<p><b>18. <u>Fugitive Dust</u></b></p> <p>Reasonable precautions to prevent fugitive dust shall be taken so that provisions of the Department's rules and regulations shall not be violated.</p>	<p>Rule 335-3-4-.02</p>
<p><b>19. <u>Additions and Revisions</u></b></p> <p>Any modifications to this source shall comply with the modification procedures in Rules 335-3-16-.13 or 335-3-16-.14.</p>	<p>Rule 335-3-16-.13 and .14</p>
<p><b>20. <u>Recordkeeping Requirements</u></b></p> <p>(a) Records of required monitoring information of the source shall include the following:</p> <ul style="list-style-type: none"> <li>(1) The date, place, and time of all sampling or measurements;</li> <li>(2) The date analyses were performed;</li> <li>(3) The company or entity that performed the analyses;</li> <li>(4) The analytical techniques or methods used;</li> <li>(5) The results of all analyses; and</li> <li>(6) The operating conditions that existed at the time of sampling or measurement.</li> </ul> <p>(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. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable.</p>	<p>Rule 335-3-16-.05(c)2</p>
<p><b>21. <u>Reporting Requirements</u></b></p> <p>(a) Reports to the Department of any required monitoring shall be submitted at least every 6 months. The reports shall be submitted within 30 days following the end of the six month period. All</p>	<p>Rule 335-3-16-.05(c)3</p>

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<p>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 Rule 335-3-16-.04(9).</p> <p>(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.</p> <p><b>22. <u>Emission Testing Requirements</u></b></p> <p>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. As allowed in MACT and other regulations, flexibility is provided to use alternative test methods, as approved by EPA, ADEM or permit condition.</p> <p>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.</p> <p>To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:</p> <p>(1) 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.</p> <p>(2) 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 require probe cleaning).</p> <p>(3) 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.</p> <p>(4) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.</p>	<p>Rule 335-3-1-.05(3) and Rule 335-3-1-.04(1)</p> <p>Rule 335-3-1-.04</p>

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<p>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.</p> <p>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 or an alternative time is specified by an applicable regulation.</p>	Rule 335-3-1-.04
<p><b>23. <u>Payment of Emission Fees</u></b></p> <p>Annual emission fees shall be remitted each year according to the fee schedule in ADEM Admin. Code R. 335-1-7-.04.</p>	Rule 335-1-7-.04
<p><b>24. <u>Other Reporting and Testing Requirements</u></b></p> <p>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.</p>	Rule 335-3-1-.04(1)
<p><b>25. <u>Title VI Requirements (Refrigerants)</u></b></p> <p>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.</p> <p>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.</p> <p>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.</p>	40 CFR Part 82
<p><b>26. <u>Chemical Accidental Prevention Provisions</u></b></p> <p>If a chemical listed in Table 1 of 40 CFR Part 68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then:</p>	40 CFR Part 68

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<p>(a) The owner or operator shall comply with the provisions in 40 CFR Part 68.</p> <p>(b) The owner or operator shall submit one of the following:</p> <p>(1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR Part 68.10(a) or,</p> <p>(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.</p>	
<p><b>27. <u>Display of Permit</u></b></p> <p>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 be made readily available for inspection by any or all persons who may request to see it.</p>	<p>Rule 335-3-14-.01(1)(d)</p>
<p><b>28. <u>Circumvention</u></b></p> <p>No person shall cause or permit the installation or use of any device or any means which, without resulting in 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.</p>	<p>Rule 335-3-1-.10</p>
<p><b>29. <u>Visible Emissions</u></b></p> <p>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 40% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 20%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.</p>	<p>Rule 335-3-4-.01(1)</p>
<p><b>30. <u>Fuel-Burning Equipment</u></b></p> <p>(a) 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 Part 335-3-4-.03.</p> <p>(b) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide</p>	<p>Rule 335-3-4-.03</p>

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<p>emissions in excess of the emissions specified in Part 335-3-5-.01.</p>	
<p><b>31. <u>Process Industries – General</u></b></p>	
<p>Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.04.</p>	<p>Rule 335-3-5-.01</p>
<p><b>32. <u>Averaging Time for Emission Limits</u></b></p>	
<p>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.</p>	<p>Rule 335-3-4-.04</p>
	<p>Rule 335-3-1-.05</p>

## Mechanical Layup Process

**Emission Unit(s):** Mechanical Layup operations with associated equipment  
**Designation No(s). in Application:** 002  
**Company:** Fiber Glass Systems L.P. Grand Bay Facility  
**Description:** Fiberglass Manufacturing

**Permitted Operating Schedule:** 24 hr/day X 365 days/yr = 8760 hr/yr

**Type and quantity of fuel used:**

Primary: None  
Secondary: None

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
VOCs	Facility wide 240 tons in any rolling 12 month period	PSD Synthetic Minor
HAPs	113 pounds per ton of organic HAP	40 CFR 63 Subpart WWWW

## Unit Specific Provisos

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<u>Section 1—Applicability</u>	
1. This source is subject to a PSD synthetic minor emission limitation.	ADEM Admin. Code R. 335-3-14-.04
2. This source is subject to the applicable requirements of 40 CFR Part 63 Subpart WWWW, “National Emission Standards for Hazardous Air Pollutants for Reinforced Plastic Composites Production.”	ADEM Admin. Code R. 335-3-11-.06(100)
<u>Section 2--Emission Standards</u>	
1. Emission of Volatile Organic Compounds (VOCs) from the plant wide operations shall not exceed 240 tons in any consecutive rolling 12-month period.	ADEM Admin. Code R. 335-3-14-.04(8)
2. This source is subject to the applicable organic HAP emission limits in 40 CFR Part 63 Subpart (WWW) Reinforced Plastics Composites Production as listed in Table 3 and Table 7 to subpart WWWW and the work practice standards in Table 4.	ADEM Admin. Code R. 335-3-11-.06(100)
3. Emissions of Hazardous Air Pollutants (HAPs) from this source shall not exceed 113 lb/ton as specified in 40 CFR Part 63 subpart WWWW Reinforced Plastics Composites Production. The emission standard shall be met using any one of the methods listed in 40 CRF 63.5810. Organic HAP emission factors shall be determined using the appropriate formula 1.c.i. from Table 1 of 40 CFR Part 63 Subpart WWWW.	ADEM Admin. Code R. 335-3-11-.06(100)
<u>Section 3--Compliance and Performance Test Methods and Procedures</u>	
1. The organic HAP content of resins and gelcoats shall be determined in accordance with 40 CFR 63.5797. Organic HAP emissions shall be determined using emission factors derived from Table 1 of Subpart WWWW. Applicable Subpart WWWW compliance requirements shall be determined in accordance with 63.5805.	ADEM Admin. Code R. 335-3-11-.06(100)
2. This source is subject to the applicable compliance requirements of 40 CFR 63 Subpart WWWW, “National Emissions Standards for Hazardous Air Pollutants for Reinforced Plastic Composites Production”, per §63.5835, and Table 4 Work Practice Standards.	ADEM Admin. Code R. 335-3-11-.06(100)
3. The owner or operator shall keep a certified statement of compliance with the work practice requirements in Table 4 of Subpart WWWW.	ADEM Admin. Code R. 335-3-11-.06(100)

Federally Enforceable Provisos	Regulations
<p><u>Section 4--Emission Monitoring</u></p> <ol style="list-style-type: none"> <li>1. The owner or operator shall maintain the records of total mass of each material used in the plant manufacturing for five years and submit them to the Administrator upon request.</li> <li>2. The owner or operator shall maintain records of the total weight and organic HAP content of each material applied during the plant manufacturing for each month.</li> <li>3. Organic HAP emissions shall be calculated by applying emission factors calculated from Table 1 of 40 CFR Part 63 Subpart (WWWW) Reinforced Plastics Composites Production to the quantity of resin or gelcoat material used. The use of any other models must be approved by the Administrator as stated in 40 CFR 63.5930.</li> </ol>	<p>ADEM Admin. Code R. 335-3-11-.06(100)</p> <p>ADEM Admin. Code R. 335-3-11-.06(100)</p> <p>ADEM Admin. Code R. 335-3-11-.06(100)</p>
<p><u>Section 5--Recordkeeping and Reporting Requirements</u></p> <ol style="list-style-type: none"> <li>1. Accurate and understandable records of consumption, which record at least the last five years of data, will be maintained in a permanent form suitable for inspection and be available immediately upon request. This facility shall provide a copy of records and supporting background documents upon request that pertain to this air permit. These records shall contain the following information: <ol style="list-style-type: none"> <li>(a) The type and quantity in pounds of each VOC and HAP containing material used during each calendar month.</li> <li>(b) The percent by weight of VOCs and HAPs content of each VOC and HAP containing material used each calendar month.</li> <li>(c) Compliance with VOC and organic HAP limits shall be based upon monthly material use inventories. Emissions may be adjusted for VOC and HAP content of material removed from the plant as waste or returns if the record keeping and details surrounding the materials are approved in advance.</li> <li>(d) Complete inventories of the VOC and HAP containing materials (their usage, VOC content and HAP content) shall be made at the end of each calendar month.</li> <li>(e) The amount of VOCs and HAPs emitted per calendar month from mechanical layup fiberglass operations expressed in units of pounds and tons.</li> <li>(f) The rolling 12-month total of VOCs and HAPs emitted from mechanical layup fiberglass operations in units of pounds and tons. The rolling 12-month total of VOC emissions from each operation shall also be summed to demonstrate compliance with the PSD synthetic minor limitation.</li> <li>(g) Within the first 15 days of each month, compliance with all VOC and HAP emission limits in this permit will be determined. These records</li> </ol> </li> </ol>	<p>ADEM Admin. Code R. 335-3-1-.04</p>



Federally Enforceable Provisos	Regulations
<p>will be maintained for 5 years. Should this facility, at any time, exceed the limits in this permit, the Air Division must be notified in writing within ten (10) days of the identification of the exceedance.</p>	
<p>2. A report summarizing the information in section 5.1 shall be submitted each calendar quarter by the last day of the month following the end of the quarter, in a format approved by the Department in advance.</p>	<p>ADEM Admin. Code R. 335-3-1-.04</p>
<p>3. This source is subject to the applicable reporting listed in 40 CFR Part 63 Subpart WWW (Reinforced Plastics Composites Production) as listed in 63.5910. As allowed in 63.5910(b)(5), the semi-annual report may be submitted in conjunction with the Title V semi-annual deviation report required by General Proviso 21(a) of this permit. The reports will contain the information required by Table 14 to Subpart WWW.</p>	<p>ADEM Admin. Code R. 335-3-11-.06(100)</p>

## Manual Layup Process

**Emission Unit(s):** Manual Layup operations with associated equipment  
**Designation No(s). in Application:** 003  
**Company:** Fiber Glass Systems L.P. Grand Bay Facility  
**Description:** Fiberglass Manufacturing

**Permitted Operating Schedule:** 24 hr/day X 365 days/yr = 8760 hr/yr

**Type and quantity of fuel used:**

Primary: None  
Secondary: None

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
VOCs	Facility wide 240 tons in any rolling 12 month period	PSD Synthetic Minor
HAPs	123 pounds per ton of organic HAP	40 CFR 63 Subpart WWWW

## Unit Specific Provisos

Federally Enforceable Provisos	Regulations
<u>Section 1--Applicability</u>	
1. This source is subject to a PSD synthetic minor emission limitation.	ADEM Admin. Code R. 335-3-14-.04
2. This source is subject to the applicable requirements of 40 CFR Part 63 Subpart WWWW, “National Emission Standards for Hazardous Air Pollutants for Reinforced Plastic Composites Production.”	ADEM Admin. Code R. 335-3-11-.06(100)
<u>Section 2--Emission Standards</u>	
1. Emissions of Volatile Organic Compounds (VOCs) from the plant wide operations shall not exceed 240 tons in any consecutive rolling 12-month period.	ADEM Admin. Code R. 335-3-14-.04(8)
2. This source is subject to the applicable organic HAP emission limits in 40 CFR Part 63 Subpart (WWWW) Reinforced Plastics Composites Production as listed in Table 3 and Table 7 to subpart WWWW and the work practice standards in Table 4.	ADEM Admin. Code R. 335-3-11-.06(100)
3. Emissions of Hazardous Air Pollutants (HAPs) from this source shall not exceed 123 lb/ton as specified in 40 CFR Part 63 subpart WWWW Reinforced Plastics Composites Production. The emission standard shall be met using any one of the methods listed in 40 CRF 63.5810. Organic HAP emission factors shall be determined using the appropriate formula 1.a.i. from Table 1 of 40 CFR Part 63 Subpart WWWW.	ADEM Admin. Code R. 335-3-11-.06(100)
<u>Section 3--Compliance and Performance Test Methods and Procedures</u>	
1. The organic HAP content of resins and gelcoats shall be determined in accordance with 40 CFR 63.5797. Organic HAP emissions shall be determined using emission factors derived from Table 1 of Subpart WWWW. Applicable Subpart WWWW compliance requirements shall be determined in accordance with 63.5805.	ADEM Admin. Code R. 335-3-11-.06(100)
2. This source is subject to the applicable compliance requirements of 40 CFR 63 Subpart WWWW, “National Emissions Standards for Hazardous Air Pollutants for Reinforced Plastic Composites Production”, per 63.5835, and Table 4 Work Practice Standards	ADEM Admin. Code R. 335-3-11-.06(100)
3. The owner or operator shall keep a certified statement of compliance with the work practice requirements in Table 4 of Subpart WWWW.	ADEM Admin. Code R. 335-3-11-.06(100)

Federally Enforceable Provisos	Regulations
<p><u>Section 4--Emission Monitoring</u></p> <ol style="list-style-type: none"> <li>1. The owner or operator shall maintain the records of total mass of each material used in the plant manufacturing for five years and submit them to the Administrator upon request.</li> <li>2. The owner or operator shall maintain records of the total volume and organic HAP content of each material applied during the plant manufacturing for each month.</li> <li>3. Organic HAP emissions shall be calculated by applying emission factors calculated from Table 1 of 40 CFR Part 63 Subpart (WWWW) Reinforced Plastics Composites Production to the quantity of resin or gelcoat material used. The use of any other models must be approved by the Administrator as stated in 40 CFR 63.5930.</li> </ol>	<p>ADEM Admin. Code R. 335-3-11-.06(100)</p> <p>ADEM Admin. Code R. 335-3-11-.06(100)</p> <p>ADEM Admin. Code R. 335-3-11-.06(100)</p>
<p><u>Section 5--Recordkeeping and Reporting Requirements</u></p> <ol style="list-style-type: none"> <li>1. Accurate and understandable records of consumption, which record at least the last five years of data, will be maintained in a permanent form suitable for inspection and be available immediately upon request. This facility shall provide a copy of records and supporting background documents upon request that pertain to this air permit. These records shall contain the following information: <ol style="list-style-type: none"> <li>(a) The type and quantity in pounds of each VOC and HAP containing material used during each calendar month.</li> <li>(b) The percent by weight of VOCs and HAPs content of each VOC and HAP containing material used each calendar month.</li> <li>(c) Compliance with VOC and organic HAP limits shall be based upon monthly material use inventories. Emissions may be adjusted for VOC and HAP content of material removed from the plant as waste or returns if the record keeping and details surrounding the materials are approved in advance.</li> <li>(d) Complete inventories of the VOC and HAP containing materials (their usage, VOC content and HAP content) shall be made at the end of each calendar month.</li> <li>(e) The amount of VOCs and HAPs emitted per calendar month from manual layup fiberglass operations expressed in units of pounds and tons.</li> <li>(f) The rolling 12-month total of VOCs and HAPs emitted from manual layup fiberglass operations in units of pounds and tons summed across all units. The rolling 12-month total of VOC emissions from each operation shall also be summed to demonstrate compliance with the PSD synthetic minor limitation.</li> </ol> </li> </ol>	<p>ADEM Admin. Code R. 335-3-1-.04</p>

Federally Enforceable Provisos	Regulations
<p>(g) Within the first 15 days of each month, compliance with all VOC and HAP emission limits in this permit will be determined. These records will be maintained for 5 years. Should this facility, at any time, exceed the limits in this permit, the Air Division must be notified in writing within ten (10) days of the identification of the exceedance.</p> <p>2. A report summarizing the information in section 5.1 shall be submitted each calendar quarter by the last day of the month following the end of the quarter, in a format approved by the Department in advance.</p> <p>3. This source is subject to the applicable reporting listed in 40 CFR Part 63 Subpart WWWW (Reinforced Plastics Composites Production) as listed in 63.5910. As allowed in 63.5910(b)(5), the semi-annual report may be submitted in conjunction with the Title V semi-annual deviation report required by General Proviso 21(a) of this permit. The reports will contain the information required by Table 14 to Subpart WWWW.</p>	<p>ADEM Admin. Code R. 335-3-1-.04</p> <p>ADEM Admin. Code R. 335-3-11-.06(100)</p>

## Tank Mandrel Layup Process

**Emission Unit(s):** Tank mandrel layup operations with associated equipment  
**Designation No(s). in Application:** 004  
**Company:** Fiber Glass Systems L.P. Grand Bay Facility  
**Description:** Fiberglass Manufacturing

**Permitted Operating Schedule:** 24 hr/day X 365 days/yr = 8760 hr/yr

**Type and quantity of fuel used:**

Primary: None

Secondary: None

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
VOCs	Facility wide 240 tons in any rolling 12 month period	PSD Synthetic Minor
HAPs	113 pounds per ton of organic HAP	40 CFR 63 Subpart WWWW

## Unit Specific Provisos

Federally Enforceable Provisos	Regulations
<u>Section 1--Applicability</u>	
1. This source is subject to a PSD synthetic minor emission limitation.	ADEM Admin. Code R. 335-3-14-.04
2. This source is subject to the applicable requirements of 40 CFR Part 63 Subpart WWWW, "National Emission Standards for Hazardous Air Pollutants for Pollutants for Reinforced Plastic Composites Production".	ADEM Admin. Code R. 335-3-11-.06(100)
<u>Section 2--Emission Standards</u>	
1. Emissions of Volatile Organic Compounds (VOCs) from the plant wide operations shall not exceed 240 tons in any consecutive 12-month period.	ADEM Admin Code R. 335-3-14-.04(8)
2. This source is subject to the applicable organic HAP emission limits in 40 CFR Part 63 Subpart WWWW "Reinforced Plastic Composites Production" as listed in Table 3 and Table 7 to Subpart WWWW and the work practice standards in Table 4.	ADEM Admin. Code R. 335-3-11-.06(100)
3. Emissions of Hazardous Air Pollutants (HAPs) from this source shall not exceed 113 lb/ton of resin, or 46.4% highest resin weight or weighted average weight, as specified in 40 CFR Part 63 Subpart WWWW Reinforced Plastics Composites Production, Table 3 and Table 7, respectively. The applicable emission standard shall be met using any one of the methods listed in 40 CFR 63.5810. Organic HAP emission factors shall be determined using the appropriate formula 1.c.i. from Table 1 of 40 CFR Part 63 Subpart WWWW.	ADEM Admin. Code R. 335-3-11-.06(100)
<u>Section 3--Compliance and Performance Test Methods and Procedures</u>	
1. The organic HAP content of resins and gelcoats shall be determined in accordance with 40 CFR 63.5797. Organic HAP emissions shall be determined using emission factors derived from Table 1 of Subpart WWWW. Applicable Subpart WWWW compliance requirements shall be determined in accordance with 63.5805.	ADEM Admin. Code R. 335-3-11-.06(100)
2. This source is subject to the applicable compliance requirements of 40 CFR 63 Subpart WWWW, "National Emissions Standards for Hazardous Air Pollutants for Reinforced Plastic Composites Production", per §63.5835, and Table 4 Work Practice Standards.	ADEM Admin. Code R. 335-3-11-.06(100)
3. The owner or operator shall keep a certified statement of compliance with the work practice requirements in Table 4 of Subpart WWWW.	ADEM Admin. Code R. 335-3-11-.06(100)
<u>Section 4--Emission Monitoring</u>	
1. The owner or operator shall maintain the records of total mass of each material used in the plant manufacturing for five years and submit them to the Administrator upon request.	ADEM Admin. Code R. 335-3-11-.06(100)
2. The owner or operator shall maintain records of the total volume and organic HAP content of each material applied during the plant manufacturing for each month.	ADEM Admin. Code R. 335-3-11-.06(100)

Federally Enforceable Provisos	Regulations
<p>3. Organic HAP emissions shall be calculated by applying emission factors calculated from Table 1 of 40 CFR Part 63 Subpart (WWWW) Reinforced Plastics Composites Production to the quantity of resin or gelcoat material used. The use of any other models must be as approved by the Administrator as stated in 40 CFR 63.5930.</p>	<p>ADEM Admin. Code R. 335-3-11-.06(100)</p>
<p><u>Section 5--Recordkeeping and Reporting Requirements</u></p>	
<p>1. Accurate and understandable records of consumption, which record at least the last five years of data, will be maintained in a permanent form suitable for inspection and be available immediately upon request. This facility shall provide a copy of records and supporting background documents upon request that pertain to this air permit. These records shall contain the following information:</p> <ul style="list-style-type: none"> <li>(a) The type and quantity in pounds of each VOC and HAP containing material used during each calendar month.</li> <li>(b) The percent by weight of VOCs and HAPs content of each VOC and HAP containing material used each calendar month.</li> <li>(c) Compliance with VOC and organic HAP limits shall be based upon monthly material use inventories. Emissions may be adjusted for VOC and HAP content of material removed from the plant as waste or returns if the record keeping and details surrounding the materials are approved in advance.</li> <li>(d) Complete inventories of the VOC and HAP containing materials (their usage, VOC content and HAP content) shall be made at the end of each calendar month.</li> <li>(e) The amount of VOCs emitted per calendar month from tank mandrel fiberglass operations in units of pounds and tons.</li> <li>(f) The rolling 12-month total of VOCs emitted from tank mandrel fiberglass operations and in units of pounds and tons. The rolling 12-month total of VOC emissions from each operation shall also be summed to demonstrate compliance with the PSD synthetic minor limitation.</li> <li>(g) Within the first 15 days of each month, compliance with all VOC and HAP emission limits in this permit will be determined. These records will be maintained for 5 years. Should this facility, at any time, exceed the limits in this permit, the Air Division must be notified in writing within ten (10) days of the identification of the exceedance.</li> </ul>	<p>ADEM Admin. Code R. 335-3-1-.04</p>
<p>2. A report summarizing the information in proviso 5.1 shall be submitted each calendar quarter by the last day of the month following the end of the quarter, in a format approved by the Department in advance.</p>	<p>ADEM Admin. Code R. 335-3-1-.04</p>
<p>3. This source is subject to the applicable reporting listed in 40 CFR Part 63 Subpart WWWW (Reinforced Plastics Composites Production) as listed in 63.5910. As allowed in 63.5910(b)(5), the semi-annual report may be submitted in conjunction with the Title V semi-annual deviation report required by General</p>	<p>ADEM Admin. Code R. 335-3-11-.06(100)</p>



Federally Enforceable Provisos	Regulations
Proviso 21(a) of this permit. The reports will contain the information required by Table 14 to Subpart WWWW.	

## Natural Gas Fueled Boiler

**Emission Unit(s):** 1.24 MMBTU/HR NATURAL GAS FUELED BOILER

**Designation No(s). in Application:** 005

**Company:** Fiber Glass Systems L.P. Grand Bay Facility

**Description:** 1.24 MMBTU/HR NATURAL GAS FUELED BOILER

**Permitted Operating Schedule:** 24 hr/day x 365 days/yr. = 8760 hr/yr.

**Type and quantity of fuel used:**

Primary: NATURAL GAS

Secondary: NONE

**Pollutants Emitted:**

Pollutant	Regulatory Emission Limit	Applicable Standard
Particulate	$E=1.38H^{-0.44}$	SIP
Opacity	20% as determined by a 6 minute average	SIP
	Recordkeeping	NSPS

## Provisos

Federally Enforceable Provisos	Regulations
<u>Section 1--Applicability</u>	
1. This source is subject to a PSD synthetic minor emission limitation.	ADEM Admin. Code R. 335-3-14-.04
2. This unit is subject to the sulfur dioxide emission rate limits for steam generating units.	ADEM Admin. Code R. 335-3-5-.01
3. This unit is subject to the particulate emission rate limits for fuel burning equipment.	ADEM Admin. Code R. 335-3-4-.03
4. This unit is subject to the opacity emission rate limits.	ADEM Admin. Code R. 335-3-4-.01
5. This unit is subject to the applicable requirements of 40 CFR Part 63 Subpart DDDDD, "National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters".	ADEM Admin. Code R. 335-3-11-.06(107)
<u>Section 2--Emission Standards</u>	
1. Emissions of Volatile Organic Compounds (VOCs) from the plant wide operations shall not exceed 240 tons in any consecutive rolling 12-month period.	
2. The particulate emission rate shall not exceed 0.5 lb/mmBTU.	ADEM Admin Code R. 335-3-4-.03
3. 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 may discharge opacity not exceeding forty (40%) percent.	ADEM Admin. Code R. 335-3-4-.01
4. Only natural gas may be fired in this unit.	ADEM Admin. Code R. 335-3-1-.04
5. This boiler shall be designed, maintained, and operated so that there will be no loss, or emissions of gases except from the exhaust stack.	ADEM Admin. Code R. 335-3-14-.04
<u>Section 3--Compliance and Performance Test Methods and Procedures</u>	
1. Method 9 as defined in 40 CFR 60, Appendix A shall be used in the determination of the opacity of the stack emissions.	ADEM Admin. Code R. 335-3-1-.05
2. Method 5 or 5a as defined in 40 CFR 60, Appendix A shall be used in the determination of particulate emissions from the stack.	ADEM Admin. Code R. 335-3-1-.05
3. Method 6 as defined in 40 CFR 60, Appendix A shall be used in the determination of sulfur dioxide emissions from the stack.	ADEM Admin. Code R. 335-3-1-.05
4. Conduct a 5-year tune-up of the boiler as specified in §63.7540(a)(12) and §63.7540(a)(10)(i) through (vi).	ADEM Admin. Code R. 335-3-11-.06(107)
<u>Section 4--Recordkeeping and Reporting Requirements</u>	
1. A report shall be maintained on-site and submitted on a 5-year basis containing the following information:	ADEM Admin. Code R. 335-3-11-.06(107)

Federally Enforceable Provisos	Regulations
<ol style="list-style-type: none"> <li data-bbox="237 247 1122 342">a. The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating lead, before and after the tune-up of the boiler;</li> <li data-bbox="237 363 1089 394">b. A description of any corrective actions taken as a part of the tune-up;</li> <li data-bbox="237 415 1122 478">c. A statement certified by the Responsible Official, stating that only natural gas was used during the reporting period.</li> </ol> <ol style="list-style-type: none"> <li data-bbox="139 499 1122 657">2. Records shall be kept of VOCs emitted per calendar month and a rolling 12-month total from this operation. The rolling 12-month total of VOC emissions from this unit shall be summed with VOC emissions from all other units each month. These records shall be included in the report submitted each quarter by the end of the month following the end of the quarter.</li> </ol>	