



JEFFERSON COUNTY DEPARTMENT OF HEALTH

1400 SIXTH AVENUE, SOUTH • P.O. BOX 2648 • BIRMINGHAM, AL 35202-2648 • 205.933.9110 • WWW.JCDH.ORG

Environmental Health Services
Jonathan Stanton, P.E., Director

June 29, 2018

Mr. Jim Riner
Plant Manager
3943 Valley East Industrial Drive
Birmingham, Alabama 35217

Dear Mr. Hanes:

Enclosed please find the final Title V Operating Permit for Glasforms, Inc. located at 3943 Valley East Industrial Drive, Birmingham, Alabama 35217.

Permit No.:

4-07-0356-06

Nature of Business:

Manufacturer of Reinforced Fiberglass
Plastic Composite Products

If you have any questions or comments, please advise.

Sincerely,

Jonathan Stanton, Director
Environmental Health Services

JS/wja

Enclosures



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Environmental Health Services

Jonathan Stanton, P.E., Director

June 29, 2018

Mr. Ron Gore
Air Division
Alabama Dept. of Environmental Management
P.O. Box 301463
Montgomery, Alabama 36130-1463

Dear Mr. Gore:

Enclosed please find a copy of the final Title V Operating Permit for Glasforms, Inc. located at 3943 Valley East Industrial Drive, Birmingham, Alabama 35217.

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Environmental Health Services

Jonathan Stanton, P.E., Director

June 29, 2018

Mr. Randy Terry
Title V Program Manager
U.S. Environmental Protection Agency – Region 4
Atlanta Federal Center
61 Forsyth Street
Atlanta, Georgia 30303

Dear Mr. Terry:

Enclosed please find a copy of the final Title V Operating Permit for Glasforms Inc., located at 3943 Valley East Industrial Drive, Birmingham, Alabama 35217.

Permit No.:

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Jonathan Stanton, Director
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Enclosures

JEFFERSON COUNTY DEPARTMENT OF HEALTH

AIR POLLUTION PROGRAM

MAJOR SOURCE OPERATING PERMIT

Permittee: Glasforms, Inc.
Location: 3943 Valley East Industrial Drive
Birmingham, Alabama 35217

Permit No: 4-07-0356-06

Issuance Date: June 29, 2018

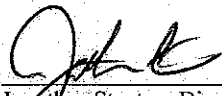
Expiration Date: June 29, 2022

Nature of Business: Manufacturing of Reinforced Fiberglass Plastic Composite Products

| Emissions Unit No. | Description of Emissions Units |
|---|---|
| No.s 002, 003, 004, 005, 019, 020, 021, 022, 023, 027, 028, & 029 | Fiberglass Plastic Composite Pultrusion Lines <u>Non-RF Small Pultrusion Machines</u> |
| No.s 007, 008, 009, 010, 011, 015, & 018 | Fiberglass Plastic Composite Pultrusion Lines with a Radio Frequency Pre-Heat Unit <u>RF/Large Pultrusion Lines</u> |
| No.s 012 & 014 | Fiberglass Plastic Composite Products Injection Molding Machines <u>Injection Molding Machines</u> |
| No.s 016, 017, 031, 040, & 041 | Fiberglass Plastic Composite Pultrusion Lines <u>Large Pultrusion Machines</u> |

This Permit is issued pursuant to and is conditioned upon the compliance with the provisions of the Jefferson County Board of Health Air Pollution Control Rules and Regulations, the applicable requirements of the Clean Air Act implementation plan for Alabama approved or promulgated by the United States Environmental Protection Agency (EPA) through rulemaking under title I of the Clean Air Act (identified in 40 CFR 52, Subpart B) and other applicable requirements as defined in section 18.1.1(e) of the Jefferson County Board of Health Rules and Regulations, Section 18 of the Alabama Air Pollution Control Act of 1971, Act No. 769 (Regular Session, 1971), Section 22-28-16 of the Alabama Air Pollution Control Act as amended; Orders of the Jefferson County Board of Health, Orders of the Director of the Alabama Department of Environmental Management (ADEM), and any applicable local, state or federal Court Order. This Permit is subject to the accuracy of all information submitted relating to the permit application and to the conditions appended hereto. It is valid from the date of issuance until the expiration date and shall be posted or kept under file at the source location described above and shall be made readily available for inspection at any reasonable time to any and all persons who may request to see it. This Permit is not transferable.

Pursuant to the Clean Air Act, conditions of this permit are federally enforceable by EPA, The Jefferson County Board of Health, ADEM and citizens in general. However, provisions that are not required by the Clean Air Act or under any of its applicable requirements, are considered to be Jefferson County provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate Sections of this Operating Permit and are specifically identified as not being federally enforceable.


Jonathan Stanton, Director
Environmental Health Services

Approved: Mark Wilson, M.D.
Health Officer



In addition to compliance with Alabama Air Pollution Control Act Number 769 (Regular Session, 1971) and Act Number 612 (Regular Session, 1982) and with all applicable Air Pollution Control Rules and Regulations, the conditions which are listed below are hereby contained in and made a part of this permit. For each citation to a Jefferson County Board of Health regulation provided in connection with a permit condition (other than for those permit conditions that are specifically identified in the permit as not being federally enforceable), Appendix A to this permit identifies the corresponding ADEM regulation that has been approved by EPA as part of the Clean Air Act implementation plan for Alabama (identified in 40 CFR 52, Subpart B). The corresponding ADEM regulations, together with the cited Jefferson County Board of Health regulations, serve as the origin and authority for the associated permit term or condition.

| No. | Federally Enforceable Conditions | Regulations |
|-----|--|--|
| 1 | <p><u>Applicability</u></p> <p>The Major Source permitted herein shall include all of the equipment and operations of the reinforced fiberglass products manufacturing process, including but not limited to, cleaning solvents, fiberglass, resins, monomers, catalysts, fillers, pigments, cutting saws, grinders, sanders, drills, particulate emissions collection and control systems, wet area enclosures, resin mixing area, storage tanks, in-plant vehicles, plant roads, parking areas and waste Volatile Organic Compound/Hazardous Air Pollutant (VOC/HAP) collection and disposal. The emissions unit is subject to the particulate and visible emissions restrictions of Chapter 6 of the Rules and Regulations. The emissions unit is subject to the operating permit emissions fees of Chapter 16 and to the major source operating permit requirements of Chapter 18 of the Jefferson County Board of Health Rules and Regulations (hereafter referred as Rules and Regulations in this permit).</p> | <p>Chapter 6 Chapter 8 Chapter 16 Chapter 18 40 CFR 63, Subpart WWWW</p> |
| 2 | <p><u>Basis for Permit</u></p> <p>This Operating Permit is issued based on provisions contained in all existing Rules and Regulations. In the event amendments, revisions or additions are made to these Rules and Regulations, it shall be the responsibility of the permit holder (hereinafter called the permittee in this permit) to comply with such new Rules and Regulations. Additions and revisions to the conditions in this Operating Permit will be made by the Jefferson County Department of Health (hereinafter called the Department), if necessary, to assure that the Rules and Regulations are not violated.</p> | <p>AL Act 769 AL Act 612</p> |
| 3 | <p><u>Authority</u></p> <p>Nothing in this Operating Permit or conditions appended thereto shall negate any authority granted to this Department or the Health Officer pursuant to Alabama Air Pollution Control Act No. 769 (Regular Session, 1971) and Act No. 612 (Regular Session, 1982) or any regulations promulgated thereunder.</p> | <p>AL Act 769 AL Act 612</p> |
| 4 | <p><u>Emission Reduction Plan</u></p> <p>Upon notification by this Department, the permittee shall submit an Air Pollution Emission Reduction Plan in a format approved by this Department concerning air contaminant emissions reductions to be taken during declared episodes.</p> | <p>18.2.8(b)</p> |
| 5 | <p><u>Bypass Prohibited</u></p> <p>The permittee shall not bypass, without prior approval from this Department, any air pollution control device or shut down any air pollution control device unless such shutdown is accompanied by the corresponding shutdown of the respective source that the device is intended to control.</p> | <p>18.2.8(a)</p> |
| 6 | <p><u>Work Practice Standards</u></p> <p>The permittee shall meet the work practice standards contained within Subpart WWW for injection molding, waste cleaning operations, and pultrusion operations using wet area enclosures.</p> | <p>40 CFR 63 Subpart WWW, Table 4</p> |
| 7 | <p><u>Shutdown of Control Equipment</u></p> <p>In the case of shutdown of air pollution control equipment for scheduled maintenance for a period greater than 24 hours, the intent shall be reported to this Department at least 24 hours prior to the planned shutdown in accordance with the requirements of Section 1.12.1 of the Rules and Regulations.</p> | <p>1.12.1</p> |
| 8 | <p><u>Transfer</u></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 Subparagraph 18.13.1(a)(5) of the Rules and Regulations.</p> | <p>18.2.6 18.13.1(a)(5)</p> |
| 9 | <p><u>Notice of Testing</u></p> <p>The permittee shall notify this Department in writing at least 2 weeks prior to the actual conduction of any source emissions test. This notice shall state the source to be tested, the proposed time of the test, the testing date(s), and the proposed testing methods and procedures.</p> | <p>1.9.1</p> |
| 10 | <p><u>Provisions for Testing</u></p> | <p>18.2.5</p> |

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| | The permittee shall provide each point of emission with sampling ports, ladders, stationary platforms, and safety equipment to facilitate testing performed in accordance with procedures established by 40 CFR 60. | 18.2.8(c) 1.10.3 |
| 11 | <p><u>Requirement of Testing</u></p> <p>A performance test to establish compliance with the emissions limits of this permit or to determine a facility-specific emission factor shall be performed when the facility's HAP/VOC components or mixture(s) content exceeds 10% of the previous compliance emissions test values. Exceedance of the 10% value shall be based on a facility-wide 1 month usage rate of resins, monomers, catalysts, etc. After determination that the facility usage rate exceeds compliance emissions test values, a new compliance emissions test shall be performed within 90 days after the end of the increase usage month.</p> | 1.10.1 1.10.2 1.10.3 Supart WWW-63.5798(a)(2) |
| 12 | <p><u>Test Results</u></p> <p>The permittee shall submit the results of all emissions test in one bound hard copy and one electronic copy within a time period specified by this Department. The submittal of tests shall not exceed 4 weeks from the test completion date.</p> | 18.2.8(c) 1.10.4 |
| 13 | <p><u>Maintenance of Controls</u></p> <p>A. The permittee shall equip each particulate matter control device with a pressure differential measuring device to measure the pressure drop across the filter media in the control device. This device shall be installed in a location that is easily accessible for inspection by personnel of this Department.</p> <p>B. 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 to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained to minimize emissions of air contaminants shall be established and submitted to this Department for approval.</p> <p>C. The permittee shall conduct routine inspections on all control equipment. All inspection results and repair work performed on the pollution control device shall be recorded. These records shall be kept in a permanent form and in a format suitable for inspection by the Department. Records of inspections are to be retained for 5 years after the date of the record.</p> | 18.2.8(a) |
| 14 | <p><u>Fugitive Dust</u></p> <p>The permittee shall maintain plant paved and unpaved roads and grounds in the vicinity of the source permitted herein in the following manner so that fugitive dust will not leave the permittee's property:</p> <p>A. Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stock piles, screens, dryers, hoppers, ductwork, etc.</p> <p>B. Unpaved plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne: or</p> <ol style="list-style-type: none"> 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 (chemical dust suppressants) to the road surface at any time the road surface is found to allow the creation of dust emissions; or 5. By any combination of the above methods which results in the prevention of dust becoming airborne from the road surface. Other dust control methods not listed above may be used if approved by the Department. <p>C. Paved plant roads and grounds shall be maintained in the following manner so that dust will not become airborne:</p> <ol style="list-style-type: none"> 1. Mechanical cleaning (vacuuming); 2. Water flushing; 3. Earth or other dust-forming material that is deposited on the paved roads shall be removed at the earliest opportunity subject to safety; 4. Paving or using a chemical dust suppressant on unpaved access points; 5. Washing and dewatering tires and the underbody of trucks which enter a paved road from an unpaved road; 6. By any combination of the above methods which results in the prevention of dust becoming airborne from the road surface. Other dust control methods not listed above may be used if approved by the Department. | 18.2.8(a) 6.2 |

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| 15 | <p><u>Maximum Achievable Control Technology Standards (MACT)</u></p> <p>The permittee shall be subject to and comply with Subpart WWW-National Emission Standard for Hazardous Air Pollutants (NESHAP) as stated under the Code of Federal Regulations (40 CFR 63). Additionally, the permittee shall be subject to and comply with all future federal MACT/NESHAP standards under 40 CFR 61 & 63 that may apply to this facility immediately from the effective date of the standards. The permittee shall notify the Department in writing within 2 working days of becoming subject to any future Federal MACT/NESHAP standard pursuant to Section 112 of the Act, as the same may be amended or revised. Pursuant to 40 CFR 63.43(c)(4), the permittee shall comply with all applicable requirements of Subpart A of 40 CFR 63. The permittee may refer to Table 15 of Subpart WWW of 40 CFR 63 for the applicable requirements of Subpart A of 40 CFR 63.</p> | <p>14.5 18.4.8(h)(3) 18.7.6 Act 112(i)(3) Subpart WWW</p> |
| 16 | <p><u>Monitoring Records</u></p> <p>The permittee shall keep records of each notification and report that the permittee submits to comply with this permit including all documentation supporting any initial notification or notification of compliance status. In addition, the permittee shall keep a certified statement that the Major Source is in compliance with the work practice standards. The permittee shall maintain all applicable records in such a manner that they are readily accessible and are suitable for inspection. All records shall be kept for 5 years. Records must be retained onsite for the most recent 2 years. Records of the 3 remaining years may be retained offsite.</p> | <p>18.5.3(b)(1)(vii)</p> |
| 17 | <p><u>Monitoring Reports</u></p> <p>Reports of required monitoring shall be submitted to the Department by July 31 and January 31 of each year unless notified otherwise. All instances of deviations from permit requirements must be clearly identified in such reports. A responsible official as defined in the Rules and Regulations must sign all reports. As a minimum, reports shall contain a statement that there were no deviations during the reporting period of an emissions limitation (emission limit, operating limit, opacity limit) or work practice standard or a record keeping requirement. The permittee may submit a reduced report upon request and approval by the Department. If approved, this reduced report shall indicate that daily records are being maintained and available for inspection, including, addressing each permit condition that requires reports of required monitoring.</p> | <p>18.5.3(c)(1)</p> |
| 18 | <p><u>Deviations</u></p> <p>Deviations from permit requirements shall be reported within 2 working days of such deviations, including those attributable to upset conditions, the probable cause of said deviations, and any corrective actions or preventive measures that were taken.</p> | <p>18.5.3(c)(2)</p> |
| 19 | <p><u>Severability</u></p> <p>In case of legal challenge to any portion of this Operating Permit, the remainder of the permit conditions shall continue in force.</p> | <p>18.5.5</p> |
| 20 | <p><u>Compliance</u></p> <p>The permittee must comply with all conditions of the Rules and Regulations. Noncompliance with the permit or permit condition will constitute a violation of the Act and the Rules and Regulations and may result in enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.</p> | <p>18.5.6</p> |
| 21 | <p><u>Compliance Defense</u></p> <p>The permittee shall not use as a defense in an enforcement action, that maintaining compliance with permit conditions would have required halting or reducing the permitted activity.</p> | <p>18.5.7</p> |
| 22 | <p><u>Termination for Cause</u></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 modification, revocation and reissuance or termination, or of a notification of a planned change or anticipated noncompliance will not stay any permit condition.</p> | <p>18.5.8</p> |
| 23 | <p><u>Property Rights</u></p> <p>No property rights of any sort or any exclusive privilege are conveyed through the issuance of this Operating Permit.</p> | <p>18.5.9</p> |

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| 24 | <u>Requests for Information</u> The permittee shall furnish 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 the permit, or to determine compliance with the permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by the permit. | 18.5.10 |
| 25 | <u>Payment of Fees</u> The permittee must have paid all fees required by the Rules and Regulations or the Operating Permit is not valid. Payment of operating permit fees required under Part 16.4 of the Rules and Regulations shall be made on or before the date specified under Section 16.5.1 of the Rules and Regulations of each year. Failure to make payment of fees within thirty days of the specified date shall cause the assessment of a late fee of 3% (of the original fee) per month or fraction thereof. | 18.5.11 16.4 16.5 |
| 26 | <u>Economic Incentives</u> No permit revision shall be required under any approved economic incentives, marketable permit emissions trading and other similar programs or processes for changes that are provided for in the Operating Permit. | 18.5.12 |
| 27 | <u>Alternative Operating Scenarios</u> If the permittee has applied for alternate operating scenarios and the Department deems the alternative operating scenarios identified in the application for this Operating Permit acceptable, then the permittee shall: A. Record the change from one operating scenario to another in a log at the permitted facility. The recording of the change shall be made contemporaneously with the change, and the log shall contain the scenario under which the facility is currently operating. B. Ensure that terms and conditions of each alternative operating scenario meets all of the applicable requirements of this permit, as well as, the Rules and Regulations. | 18.5.13 |
| 28 | <u>Entry and Inspections</u> The permittee shall allow the Department, Alabama Department of Environmental Management (ADEM), Environmental Protection Agency (EPA), or authorized representative upon presentation of credentials and other documents that may be required by law 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 are kept pursuant to the permit conditions; B. Review and/or copy at reasonable times any records kept pursuant to the permit conditions; C. Inspect at reasonable times any facilities, equipment, practices or operations required by the permit; and D. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or other applicable requirements. | 18.7.2 18.2.9(d) |
| 29 | <u>Compliance Certification</u> A compliance certification shall be submitted annually within 30 days of the anniversary of the initial issue date (anniversary date 6/24/99). The permittee shall provide a means for monitoring the compliance of its air pollution sources with the emissions limitation, standards and work practices listed or referenced within this permit. 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. Whether compliance has been continuous or intermittent; 4. The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with the Rules and Regulations; and 5. Such other facts as the Department may require to determine the compliance status of the source. B. The compliance certification shall be submitted to the following two agencies: Jefferson County Department of Health Air Pollution Control Program P.O. Box 2648 Birmingham, Alabama 35202-2648 and to EPA Region IV Air & EPCRA Enforcement Branch 61 Forsyth Street Atlanta, GA 30303 | 18.7.1 18.7.5(c) 18.7.5(d) 18.7.5(e) 18.4.9 |

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| 30 | <p><u>Reopening for Cause</u> Under any of the following circumstances, this Operating Permit will be reopened prior to the expiration of the permit:</p> <ul style="list-style-type: none"> A. Additional applicable requirements under the Clean Air Act become applicable to the permittee with a remaining permit term of 3 or more years. Such a reopening shall be completed not later than 18 months after promulgation of the applicable requirements. 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, ADEM 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 (EPA), ADEM or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements. | 18.13.5 |
| 31 | <p><u>Changes</u> Certain changes (per section 502 (B)(10) of the Act) can be made to this Operating Permit without a revision if no modification as defined in the Rules and Regulations would occur and the changes do not exceed the emissions allowed under this permit provided that a notice is sent to the Department at least 7 days in advance of the change.</p> | 18.13.2 |
| 32 | <p><u>Emergency Provision</u></p> <ul style="list-style-type: none"> A. An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emissions limitation under the Operating Permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include non-compliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error. B. Exceedances of emission limits during emergencies (as defined above) at a facility may be exempted from being violations provided that one or more of the following actions occur: <ul style="list-style-type: none"> 1. The permittee can identify the cause(s) of the emergency; 2. At the time of the emergency, the permitted facility was being properly operated; 3. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; 4. The permittee submitted notice of the emergency to the Health Department within 2 working days of the time when emission limitations were exceeded due to the emergency. Such notice shall include those deviations attributable to upset conditions as defined in the permit, the probable cause of said deviations, and any corrective actions or preventive measures that were taken. Within 5 working days of the emergency, a written documentation of what was reported in the notice of the emergency shall be submitted to the Department; and 5. The permittee immediately documented the emergency exceedance in an "Emergency Log," which shall be maintained for 5 years in a form suitable for inspection upon request by a representative of the Department. C. The Health Officer shall be the sole determiner of whether an emergency has occurred. D. This provision is in addition to any emergency or upset provision contained in any applicable requirement. | 18.11.2 |
| 33 | <p><u>Nothing in this Operating Permit shall alter or affect the following:</u></p> <ul style="list-style-type: none"> A. The provisions of section 303 of the Act (emergency orders), including the authority of the Administrator under that section; B. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance; C. The applicable requirements of the acid rain program, consistent with section 408(a) of the Act; or D. The ability of EPA to obtain information from a source pursuant to section 114 of the Act. | 18.10.3 |

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| 34 | <p><u>Expiration</u> A source's right to operate shall terminate upon the expiration of this Operating Permit unless a timely complete renewal application has been submitted at least 6 months, but not more than 18 months before the date of expiration or the Department has taken final action approving the source's application for renewal by the expiration date. The expiration date of this Operating Permit is printed on the first page of this permit.</p> | 18.12.2(b) 18.4.3 18.5.2 |
| 35 | <p><u>Minor Permit Modifications</u> Minor permit modification procedures may be used only for those permit modifications that:</p> <ul style="list-style-type: none"> A. Do not violate any applicable requirement; B. Do not involve significant changes to existing monitoring, reporting, or record keeping requirements in the permit; C. Do not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient impacts, or a visibility or increment analysis; D. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include: <ul style="list-style-type: none"> 1. A federally enforceable emissions cap assumed to avoid classification as a modification under any provision of title I of the Act; and 2. An alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act; E. Are not modifications under any provision of title I of the Act; and F. Are not required by Part 18.12 of this Chapter to be processed as a significant modification. | 18.13.3 |
| 36 | <p><u>Display and Availability of Permit</u> The permittee shall keep this Operating Permit under file or on display at all times at the site where the source is located and shall make the permit available for inspection by any and all persons who may request to see it.</p> | 18.2.2 |
| 37 | <p><u>Acceptance of Permit</u> The permittee is required to bring the operation of a source within the standards of Paragraph 18.2.8(a) of the Rules and Regulations. Commencing construction or operation of the source shall be deemed acceptance of all conditions specified. An Operating Permit with revised conditions may be issued upon receipt of a new application if the permittee demonstrates that the source can operate within the standard of Paragraph 18.2.8(a) of the Rules and Regulations under the revised conditions.</p> | 18.2.4 18.2.8(a) |
| 38 | <p><u>Construction Not In Accordance with Applications</u> If the source permitted herein has not been constructed in accordance with the Operating Permit application and if the changes noted are of a substantial nature in that the amount of air contaminants emitted by the source may be increased or in that the effect is unknown, then the Operating Permit shall be revoked. No further application for an Operating Permit shall be accepted until the source has been reconstructed in accordance with the Operating Permit or until the permittee has proven to the Department that the change will not cause an increase in the emission of air contaminants.</p> | 18.2.8(e) |
| 39 | <p><u>Revocation of Operating Permit</u> This Operating Permit may be revoked for any of the following reasons:</p> <ul style="list-style-type: none"> A. Failure to comply with any conditions of the permit. B. Failure to establish and maintain such records, make such reports, install, use and maintain such monitoring equipment or methods; and sample such emissions in accordance with such methods at such locations, intervals and procedures as may be prescribed in accordance with Section 1.9.2 of the Rules and Regulations. C. Failure to comply with any provisions of any Department administrative order issued concerning the permitted facility. D. Failure to comply with the Rules and Regulations. E. For any other cause, after a hearing which establishes, in the judgment of the Department, that continuance of the permit is not consistent with the purpose of the Act or the Rules and Regulations. | 18.2.9 |
| 40 | <p><u>Additional Information</u> The permittee shall submit any additional information to the Department to supplement or correct an application promptly after becoming aware of the need for additional or corrected information.</p> | 18.4.7 |

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| 41 | <u>Permit Shield</u> If the permittee has requested a permit shield in the permit application and the permit shield has been granted by the Department, the permit shield under Part 18.10 of the Rules and Regulations shall not extend to minor permit modifications. | 18.13.3(f) |
| 42 | <u>Significant Modifications</u> Modifications that are significant under the Prevention of Significant Deterioration (PSD), Part 2.4, or non-attainment section, Part 2.5 of the regulations, or are modifications under the New Source Performance Standards (NSPS), or National Emissions Standards for Hazardous Air Pollutants (NESHAPS) regulations, must be incorporated in the Operating Permit using the requirements for sources initially applying for an Operating Permit. This would include those for applications, public participation, review by affected States, review by ADEM, and review by EPA, as described in Parts 18.4 and 18.14 of the Rules and Regulations. | 18.13.4 |
| 43 | <u>Schedule of Compliance</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. | 18.7.3 |
| 44 | <u>Progress Reports</u> If any air pollution source owned or operated by the permittee is not in compliance with the emissions limitations, standards and work practices listed or referenced within this permit, the permittee shall submit a progress report for that air pollution source. The first schedule of compliance shall be submitted within 3 months after the Operating Permit issuance date or within 3 months of the permittee or the Department determining that the air pollution source is not in compliance. Subsequent reports shall be submitted every sixth month following the initial report. The progress reports shall contain the following: A. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and/or dates when such activities, milestones or compliance were achieved; B. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted. | 18.7.4 |
| 45 | <u>Obnoxious Odors</u> This Operating Permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Department inspectors, measures to abate the odorous emissions shall be taken upon a determination by this Department that these measures are technically and economically feasible. | 6.2.3 |
| 46 | <u>New Air Pollution Sources</u> A new permit application must be made for new sources, replacements, alterations or design changes which may result in the issuance of, or an increase in the issuance of, air contaminants, or the use of which may eliminate or reduce or control the issuance of air contaminants. | Chapter 18 |
| 47 | <u>Prevention of Accidental Releases</u> If the permittee has any substance listed pursuant to paragraph (3) of section 112(r) stored in the facility permitted herein, the permittee shall comply with the requirements of section 112(r) of the Act to prevent accidental releases of any substance listed pursuant to paragraph (3) of section 112(r), as the same may be amended or revised, or any other extremely hazardous substance. | 112 (r) 40 CFR 68 |
| 48 | <u>Housekeeping Requirements</u> The permittee shall not cause or allow the disposal of waste VOC/HAP materials in sewers, open containers, or in any manner that would result in vaporization to the atmosphere. | 18.5.3(c)(2) |
| 49 | <u>VOC/HAP Spills or Other Mishaps</u> The permittee shall maintain a record of all spills or other mishaps of VOC/HAP materials. The record shall include the date, time, and quantity (gallons and/or pounds) of VOC/HAP materials involved in the spill or mishap. The permittee shall document the amount of VOC/HAP materials recovered and the amount that evaporated to the atmosphere. | Chapter 8 |
| 50 | <u>Title VI Requirements (Refrigerants)</u> Any facility having appliances or refrigeration equipment, including air conditioning equipment which use Class I or Class II ozone-depleting substances such as chlorofluorocarbons and hydrochlorofluorocarbons listed as refrigerants in 40 CFR 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 82, Subpart F. | 40 CFR 82 18.1.1(e)(10) 18.1.1(w)(4) |

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| | <p>A. 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 such device except as provided in 40 CFR 82, Subpart F.</p> <p>B. The responsible official shall comply with all reporting and record-keeping requirements of 40 CFR 82.166. Reports shall be submitted to the U.S. EPA and the Department as required.</p> | |
| 51 | <p><u>Asbestos Demolition and Renovation</u> Asbestos demolition and renovation activities are subject to the National Emission Standard for Asbestos in 40 CFR 61, Subpart M. To determine the applicable requirements of the standard, the permittee shall inspect the affected part of the facility permitted herein where the demolition or renovation operation will occur for the presence of asbestos, including Category I and Category II nonfriable asbestos containing materials, prior to commencement of the demolition or renovation operations. The permittee shall comply with all applicable sections of the standard, including notification requirements, emission control and waste disposal procedures. The permittee shall ensure that anyone performing asbestos related work at the facility permitted herein is trained and certified according to ADEM's regulations for Asbestos Contractor Certification.</p> | 40 CFR 61, 14.2.12 |
| 52 | <p><u>Notification of Violations</u> The permittee shall submit a report to the Department within 2 working days after determining any violations of emissions or production permit restrictions and any Rules and Regulations.</p> | 18.5.3 |
| 53 | <p><u>Cold Solvent Metal Cleaner</u> The permittee shall not allow or cause the cold solvent metal cleaner within the facility permitted herein to use any halogenated solvents or solvents containing a hazardous air pollutant. The cold solvent metal cleaner is subject to and shall comply with the requirements of Part 8.12 of the Rules and Regulations.</p> | 8.12 18.5 |
| 54 | <p><u>Facility-Wide Solvent Restriction</u> The permittee shall not allow or cause the usage of any solvent for the purposes of cleaning that contains a halogenated solvent or a hazardous air pollutant within the facility permitted herein except for 5 gallons per year based on an annual rolling average as defined under Part 1.3 of the Rules and Regulations, and determined by the required monthly records. The permittee shall not have more than 5 gallons stored within the facility at any time.</p> | 18.5 CAA 112g |
| 55 | <p><u>Resin Mixing Restrictions</u> The permittee shall install covers on all open-top containers, tanks, or drums used for mixing of the resin. These covers shall remain closed except when production, sampling, maintenance or inspection procedures require operator access. The cover may have 1 small opening to allow the motorized mixing shaft to pass through. Mixing containers that are 5 gallons or less are exempted, but shall be covered immediately after the mixing operation and during transport.</p> | 18.5 CAA 112g |
| 56 | <p><u>Definitions</u> For the purposes of this Major Source Operating Permit, the following terms will have the meanings ascribed to in this permit:</p> <p>"40 CFR 60" shall be an acronym for Part 60 of Title 40 of the <u>Code of Federal Regulations</u>, as the same may be amended or revised.</p> <p>"40 CFR 61" shall be an acronym for Part 61 of Title 40 of the <u>Code of Federal Regulations</u>, as the same may be amended or revised.</p> <p>"40 CFR 63" shall be an acronym for Part 63 of Title 40 of the <u>Code of Federal Regulations</u>, as the same may be amended or revised.</p> <p>"40 CFR 68" shall be an acronym for Part 68 of Title 40 of the <u>Code of Federal Regulations</u>, as the same may be amended or revised.</p> <p>"40 CFR 82" shall be an acronym for Part 82 of Title 40 of the <u>Code of Federal Regulations</u>, as the same may be amended or revised.</p> <p>"ACT" shall mean the Clean Air Act, as amended, 42 U.S.C. 7401, et seq.</p> <p>"ADEM" shall mean the Alabama Department of Environmental Management.</p> | 1.3 8.11.3 |

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| | <p>"Air Permit" shall mean any permit issued pursuant to Chapter Two of the Rules and Regulations.</p> <p>"Cold Solvent Cleaning" shall mean the batch process of cleaning and removing soils from metal surfaces by spraying, brushing, flushing or immersion while maintaining the solvent below its boiling point. Wipe cleaning is not included in this definition.</p> <p>"Department" shall mean the Jefferson County Department of Health.</p> <p>"Emissions Unit" shall mean any part or activity of a stationary source that emits or has the potential to emit any regulated air pollutant or any pollutant listed under section 112(b) of the Act.</p> <p>"EPA" shall mean the U. S. Environmental Protection Agency.</p> <p>"Emergency" shall mean any situation arising from sudden and reasonably unforeseeable events beyond the control of the facility, including acts of God. These are situations that require immediate corrective action(s) to restore normal operation, and that cause the facility to exceed a technology based emission limitation set by the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include exceedances of the permit emission limitations caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.</p> <p>"Operating Permit" shall mean any permit issued pursuant to Chapter 18 of the Rules and Regulations.</p> <p>"Permittee" shall mean the holder of a permit issued by the Department.</p> <p>"Potential Major Source" shall mean any major source as defined in Part 18.1 of the Rules and Regulations whose actual emissions are less than the major source thresholds.</p> <p>"RF Pre-Heat Unit" shall mean a radio frequency pre-heat unit used on large reinforced fiberglass plastic composite products pultrusion lines.</p> <p>"Rules and Regulations" shall mean the Jefferson County Board of Health Air Pollution Control Rules and Regulations, as the same may be amended or revised.</p> <p>"Source" shall mean any building, structure, facility, installation, article, machine, equipment, device, or other contrivance that emits or may emit any air contaminant. Any activity, which utilizes abrasives or chemicals for cleaning, or any other purpose (such as cleaning the exterior of buildings) which emits air contaminants shall be considered a source.</p> <p>"Stationary Source" shall mean any building, structure, facility, or installation that emits or may emit any regulated air pollutant as defined in Part 18.1 of the Rules and Regulations or any pollutant listed in Appendix D of the Rules and Regulations.</p> <p>"VOC" shall be an acronym for volatile organic compound.</p> <p>"VOC Content" shall mean the volatile organic compound proportion of a resin, catalyst, monomer, additive, filler, pigment or solvent that is used in a plastic composite product pultrusion process.</p> <p>"Volatile Organic Compound" shall mean any compound of carbon excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate, which participates in atmospheric photochemical reactions.</p> | |
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Emissions Unit Operating Permit Summary

Non-RF Small Pultrusion Machines

Emission Unit No.s: 002, 003, 004, 005, 019, 020, 021, 022, 023, 027, 028, & 029

Description: Reinforced Fiberglass Plastic Composite Products Manufacturing Processes Including: Styrene/Epoxy Pultrusion Line, Including Sawing, Sanding, and Grinding and Drilling Machines with Particulate Emissions Capture and Canister Filter Control System.

Large Pultrusion Machines

Emission Unit No.s: 016, 017, 031, 040 & 041

Description: Reinforced Fiberglass Plastic Composite Products Manufacturing Processes Including: Styrene/Epoxy Pultrusion Line, Including Sawing, Sanding, and Grinding and Drilling Machines with Particulate Emissions Capture and Canister Filter Control System.

Permitted Operating Schedule: 8,760 hours/year

Type and quantity of fuel used:

Primary: None

Secondary: None

Pollutants Emitted:

| Pollutant | Permit Emission Limits | Applicable Standard |
|-------------------------------------|------------------------|----------------------------------|
| Volatile Organic Compounds (VOC) | 60% VOC reduction | 40 CFR 63, Subpart WWWW, Table 3 |
| Styrene (CAS # 100425) (Single HAP) | 60% HAP reduction | 40 CFR 63, Subpart WWWW, Table 3 |
| Particulates (PM) | $E = 3.59P^{0.62}$ | Section 6.4.1 |
| Visible Emissions (VE) | Less than 20 % | Section 6.1.1 |
| Epoxy Service (VOC/HAP) | No VOC/HAP allowed | 18.5.13 |

Pollution Control Devices:

Wet Area Enclosures VOC/HAP Operation
Particulate Canister Filter Baghouse

Periodic Emissions Monitoring:

Daily Visible Emissions Check of Baghouse Exhaust
Daily Inspection Check of Wet Area Enclosures

Continuous Compliance Determiner:

Daily Records of Styrene-Containing Compounds Usage
Daily Records of VOC/HAP-Containing Compounds Usage
Daily Work Practice Standards

EPA Reference Test Methods:

40 CFR 60, 40 CFR 51

Quality Assurance Procedures:

Operation and Maintenance Plan

Reporting Requirements:

Refer to Permit Conditions 19, & 20

Applicable Regulations:

Sections 6.1.1, & 6.4.1 and Parts 2.6 & 18.5 and Chapters 6, 16 & 18, Section 112(g)(2)(B), and Section 112(d) of CAAA

Alternate Operations:

Section 18.5.13

| No. | | Regulation |
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| 1 | <p>Section 1 – Applicability</p> <p><u>Applicability</u> The Emissions Unit No.s 002, 003, 004, 005, 019, 020, 023, 027, 028, 029 (Non-RF Small Pultrusion Machines), 016, 017, 031, 040 & 041 (Large Pultrusion Machines) permitted herein shall include all of the equipment and operations of the pultrusion lines, including but not limited to, cleaning solvents, fiberglass, resins, monomers, catalysts, fillers, pigments, cutting saws, grinders, sanders, drills, particulate emissions collection and control systems, wet area enclosures, and waste VOC/HAP collection and disposal. The emissions unit is subject to the particulate and visible emissions restrictions of Chapter 6 of the Rules and Regulations. The emissions unit is subject to the operating permit emissions fees of Chapter 16 and to the major source operating permit requirements of Chapter 18 of the Rules and Regulations. Additionally, the permittee is subject to and comply with Subpart WWW-National Emission Standards for Hazardous Air Pollutants (NESHAP) as stated under 40 CFR 63.</p> | <p>Chapter 6 Chapter 8 Chapter 16 Chapter 18 40 CFR 63, Subpart WWW, 63.5790</p> |
| 2 | <p>Section 2 – Emission, Equipment or Production Requirements and Limitations</p> <p><u>Styrene Emissions Restriction</u> The permittee shall not allow or cause Emissions Unit No.s 002, 003, 004, 005, 019, 020, 021, 022, 023, 028, 029 (Non-RF Small Pultrusion Machines), 016, 017, 031, 040 & 041 (Large Pultrusion Machines) permitted herein to have a less than 60% HAP reduction from uncontrolled operations. Normalize time period to determine enclosure performance is 8 hrs. even when batch run times may be longer. Maintenance of records will be based on the 8 hr. normalized run time per batch. Emissions as determined by material balance, manufacturer's material formulation data, the most recent source emissions test, and EPA's latest emission factors.</p> | <p>18.5 40 CFR 63, Subpart WWW, 63.5830</p> |
| 3 | <p><u>VOC Emissions Restrictions</u> The permittee shall not allow or cause Emissions Unit No.s 002, 003, 004, 005, 019, 020, 021, 022, 023, 028, 029 (Non-RF Small Pultrusion Machines), 016, 017, 031, 040 & 041 (Large Pultrusion Machines) permitted herein to have a less than 60% VOC reduction from uncontrolled operations. Normalize time period to determine enclosure performance is 8 hrs. even when batch run times may be longer. Maintenance of records will be based on the 8 hr. normalized run time per batch. Emissions as determined by material balance, manufacturer's material formulation data, the most recent source emissions test, and EPA's latest emission factors.</p> | <p>18.5 40 CFR 63, Subpart WWW, 63.5830</p> |
| 4 | <p><u>Visible Emissions Restriction</u> The Emissions Unit No.s 002, 003, 004, 005, 019, 020, 021, 022, 023, 028, 029 (Non-RF Small Pultrusion Machines), 016, 017, 031, 040 & 041 (Large Pultrusion Machines) (sawing, sanding, grinding, and drilling machines with a canister filter baghouse) permitted herein is subject to and shall comply with the requirements under Section 6.1.1, entitled "Visible Emissions Restrictions for Stationary Sources," of the Rules and Regulations. The permittee shall not cause or allow the discharge into the atmosphere from the particulate emissions sources permitted herein any air contaminant of an equivalent opacity greater than that designated as 20% opacity, as determined by a 6 minute average; except, during one 6 minute period in any 60 minute period, the permittee may discharge into the atmosphere any air contaminant of an equivalent opacity not greater than that designated as 40% opacity. Compliance with the opacity standard in this condition shall be determined by conducting observations in accordance with US EPA Reference Method 9 in Appendix A of 40 CFR 60, April 6, 2018, as the same may be amended or revised. As an alternative method of periodic monitoring, the permittee shall perform a visual check and make a record of the visual check of the exhaust stack of the canister filter baghouse for any visible emissions at least once per operating day. If any visible emissions are observed the permittee shall immediately correct the problem causing the source to emit visible emissions or shut down the particulate emissions sources. A record of the malfunction shall be created and maintained. The permittee shall notify the Department of which compliance method it elects to meet as noted within Condition 4, herein.</p> | <p>6.1.1 18.5</p> |
| 5 | <p><u>Particulate Emissions Restriction</u> The Emissions Unit No.s 002, 003, 004, 005, 019, 020, 021, 022, 023, 027, 028, 029 (Non-RF Small Pultrusion Machines), 016, 017, 031, 040 & 041 (Large Pultrusion Machines) (sawing, sanding, grinding, and drilling machines with a canister filter baghouse) permitted herein is subject to and shall comply with the requirements under Part 6.4, entitled "Process Industries -</p> | <p>6.4.1 18.5</p> |

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| | <p>General,” of the Rules and Regulations. The permittee shall not cause or allow the emissions of particulate matter from the particulate emissions sources permitted herein in excess of that allowed under the process weight formula under Section 6.4.1 of the Rules and Regulations as determined by US EPA Reference Method 5 of Appendix A of 40 <u>CFR</u> 60, April 6, 2018, as the same may be amended or revised.</p> <p>E = 3.59 P^{0.62} Where: P < 30 tons/hour P = Process Weight in Tons Per Hour E = Allowable Pounds per Hour Emission Rate</p> | |
| 6 | <p><u>Particulate Emissions Control Maintenance</u></p> <p>The permittee shall maintain in-stock at least 6 new or cleaned and recycled filter canisters in proper working order for the particulate emissions control device permitted herein.</p> | 18.5 |
| 7 | <p><u>Wet Area Enclosure Requirements</u> <u>Styrene Plastic Composite Production Only</u></p> <p>The permittee shall install, operate and maintain a wet area enclosure on Emissions Unit No.s 002, 003, 004, 005, 019, 020, 021, 022, 023, 027, 028, 029 (Non-RF Small Pultrusion Machines), 016, 017, 031, 040 & 041 (Large Pultrusion Machines) permitted herein. The wet area enclosure surrounding the resin bath of the source permitted herein shall cover and enclose the open-top resin bath and forming area in which reinforcements are wet out and are moving toward the dies. The surfaces of the wet area enclosure shall be closed except for openings to allow material to enter and exit the wet area enclosure. The wet area enclosures shall not be removed from the pultrusion line or the access panel doors, and/or hatches open for more than 30 minutes per 8 hour work shift (45 minutes for a 12 hour work shift, or 90 minutes per day if the machine is operated for 24 hours in a day) for repairs or maintenance when the resin bath has resin in it, as determined by the required daily records, except when the permittee elects to meet the alternate compliance method as noted in Condition 8 of this emissions unit.</p> | 18.5.1 CAA 112(g) CAA 112(d) 40 CFR 63, Subpart WWWW 63.5830 |
| 8 | <p><u>Alternative Compliance Method-Wet Area Enclosure Requirements</u> <u>Styrene Plastic Composite Production Only</u></p> <p>The permittee shall install, operate and maintain a wet area enclosure on the Emissions Unit No.s 002, 003, 004, 005, 019, 020, 021, 022, 023, 027, 028, 029 (Non-RF Small Pultrusion Machines), 016, 017, 031, 040 & 041 (Large Pultrusion Machines) permitted herein. The wet area enclosure surrounding the resin bath of the source permitted herein shall cover and enclose the open-top resin bath and forming area in which reinforcements are wet out and are moving toward the dies. The surfaces of the wet area enclosure shall be closed except for openings to allow material to enter and exit the wet area enclosure. The wet area shall not be opened for more than a composite average of 30 minutes per pultrusion line per 8 hour work shift. All machines that operate during a day (24 hrs) shall be normalized to an 8 hr time period with the number of machines that meet 8 hrs of operation given 30 minutes of bath covers up. Any machine can exceed the 30 minute standard as long as the 30 minute per machine is not exceeded by the composite number of machines meeting continuous operation in a normalize 8 hr shift. In any calendar day there is a potential of three (3) 8 hr shift. Please note a machines running must be in the styrene mold with resin in the resin bath. Cross averaging between 8 hr shift is not allowed. The pultrusion lines that operate less than an entire shift must meet the primary standard, Condition 7 of this emissions unit, and is not allowed to be composite averaged.</p> | 18.5.1 CAA 112(g) 40 CFR 63, Subpart WWWW |
| 9 | <p><u>Alternative Operating Scenarios – Operational Flexibility</u></p> <p>In accordance with Chapter 18 of the Rules and Regulations and Section 70.6(a)(9) of the CAA, the permitted facility is authorized to make changes in operations of Emissions Unit No.s 002, 003, 004, 005, 019, 020, 021, 022, 023, 027, 028, 029 (Non-RF Pultrusion Machines), 016, 017, 031, 040 & 041 (Large Pultrusion Machines) within the facility without a permit revision, if the changes are not modifications under Title I of the Act and the changes do not exceed the emissions limits as stipulated within this permit.</p> <p>The permittee is allowed to make the following changes to its method of operations for Emissions Unit No.s 002, 003, 004, 005, 016, 017, 019, 020, 021, 022, 023, 028, 029, 031, 040:& 041.</p> | 18.5.13 Section 70.6(a)(9) CAA Subpart WWWW |

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| | <p>1 The permittee is allowed to change its material formulation from epoxy plastic composites production to styrene plastic composites or from styrene plastic composite production to epoxy plastic production by meeting the requirements of monitoring and recordkeeping as prescribed in this emissions unit.</p> <p>2 The permittee shall keep a contemporaneous record of all changes among alternate scenarios in an on-site log.</p> <p>3 The permittee shall meet all requirement of Subpart WWWW when in styrene plastic composite manufacturing.</p> <p>4 The permittee shall meet all the requirements of recordkeeping and reporting within this Emissions Unit except;</p> <p>a. The permittee is not required to have a MACT control device as stipulated in Subpart WWWW or maintain related records when epoxy plastic composite products are being manufactured.</p> | |
| 10 | <p><u>Wet Area Enclosure Requirements</u> <u>Styrene Plastic Composite Production Only</u> For the Emissions Unit No.s 002, 003, 004, 005, 019, 020, 021, 022, 023, 028, 029 (Non-RF Small Pultrusion Machines), 016, 017, 031, 040 & 041 (Large Pultrusion Machines) permitted herein, the permittee shall install, operate and maintain the wet area enclosure to extend from the beginning of the resin bath to 0.5 inches of the die entrances.</p> | 18.5.1 CAA 112(g) Subpart www 63.5830 |
| 11 | <p><u>Wet Area Enclosure Requirements</u> <u>Styrene Plastic Composite Production Only</u> The pultrusion line enclosure can only be constructed high enough to clear the highest part of the protrusion line that must be inside the enclosure. The total open area of the enclosure must not exceed 2 times the cross sectional area of the puller window(s) and must comply with the following requirements:</p> <p>A. All areas which are open need to be included in the total open area calculation with the exception of access panels, doors, and/or hatches that are part of the enclosure.</p> <p>B. The area which is displaced by entering reinforcement or existing product is considered open.</p> <p>C. Areas that are covered by brush covers are considered closed.</p> | 2.6 18.5.1 CAA 112(g) Subpart WWW 63.5830 |
| 12 | <p><u>Alternate Compliance Method- Wet Area Enclosure Requirements</u> The permittee shall not allow or cause the total open area of the wet area enclosure of the Emissions Unit No.s 002, 003, 004, 005, 019, 020, 021, 022, 023, 028, 029 (Non-RF Small Pultrusion Machines), 016, 017, 031, 040 & 041 (Large Pultrusion Machines) permitted herein to exceed 5.0% of the following calculated surface area (A) of the wet area enclosure:</p> $A = 2(HL + HW + LW)$ <p>where,</p> <p>A = Surface Area of wet area enclosure (inches²).</p> <p>H = Height measured from the top of the resin bath to the top of the wet area enclosure. The height of the enclosure shall not be greater than 1.75 times the depth of the resin bath or the enclosure can only be constructed high enough to clear the highest part of the pultrusion line that must be inside the enclosure (inches).</p> <p>L = Length measured from the beginning of the resin bath to within 0.5 inches of the die entrance (inches).</p> <p>W = Width of the resin bath (inches).</p> <p>a. All areas that are considered open shall be counted in the total open area calculation except access panels, doors, area's covered by brush covers, and/or hatches that are part of the enclosure.</p> <p>b. The area that is displaced by the entering reinforcement or exiting product shall be considered open.</p> | 18.5.1 CAA 112(g) 40 CFR 63, Subpart WWW |

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| 13 | <p><u>Wet Area Enclosure Requirements</u> <u>Styrene Plastic Composite Production Only</u> For the Emissions Unit No.s 002, 003, 004, 005, 019, 020, 021, 022, 023, 028, 029 (Non-RF Small Pultrusion Machines), 016, 017, 031 040 & 041 (Large Pultrusion Machines) permitted herein shall not allow or cause the open area of the wet area enclosure for level control devices, monitoring devices, agitation shafts, resin recirculating pump pipes and/or fill hoses to exceed 1 inch clearance.</p> | 2.6 18.5.1 CAA 112(g) Subpart WWW 63.5830 |
| 14 | <p><u>Wet Area Enclosure Requirements</u> <u>Styrene Plastic Composite Production Only</u> The permittee shall not allow or cause the access panels, doors, and/or hatches that are a part of the wet area enclosure of Emissions Unit No.s 002, 003, 004, 005, 019, 020, 021, 022, 023, 028, 029 (Non-RF Small Pultrusion Machines), 016, 017, 031 040 & 041 (Large Pultrusion Machines) permitted herein to remain open except when operations require it or when opening/closing of the resin manual feed valve is necessary. The access panels, doors, and/or hatches shall close tightly to avoid vapor leakage.</p> | 2.6 18.5.1 CAA 112(g) Subpart WWW 63.5830 |
| 15 | <p><u>Wet Area Enclosure Requirements</u> <u>Styrene Plastic Composite Production Only</u> The permittee shall not allow or cause fans, blowers, and/or air-lines within the wet area enclosure of Emissions Unit No.s 002, 003, 004, 005, 019, 020, 021, 022, 023, 028, 029 (Non-RF Small Pultrusion Machines), 016, 017, 031 040 & 041 (Large Pultrusion Machines) permitted herein. The wet area enclosures shall not be ventilated in any manner.</p> | 2.6 18.5.1 CAA 112(g) Subpart WWW 63.5830 |
| 16 | <p><u>Waste Resin and Solvent Disposal</u> The permittee shall collect and properly contain, as much as possible, the waste resins, catalysts, monomers, fillers, pigments, additives and solvents (including VOC-exempt acetone) that are not reusable. The permittee shall not store any VOC/HAP containing materials in open containers or dispose of the materials in sewers, trash bins, or other methods of disposal that allow the materials to evaporate to the atmosphere. Records of the method of disposal shall be maintained. The permittee shall develop and implement a work practice standard for waste solvent cleanup.</p> | 18.5 |
| Section 3 – Compliance and Performance Test Methods and Procedures | | |
| 17 | <p><u>EPA Reference Test Methods and Procedures</u> The permittee shall determine compliance with the particulate emissions, VOC emissions, styrene emissions and visible emissions restrictions of this permit by the following EPA's reference methods under 40 CFR 60, Appendix A, and 40 CFR 51 as the same may be amended or revised:</p> <p>Method 1: Sample and Velocity Traverses Method 2: Determination of Stack Gas Velocity and Volumetric Flow Rate Method 3: Gas Analysis for Carbon Monoxide, Oxygen, Excess Air, and Dry Molecular Weight Method 4: Determination of Moisture Content in Stack Gases Method 5: Determination of Particulate Emissions Method 9: Visual Determination of the Opacity of Emissions Method 18: Measurement of Gaseous Organic Compound Emissions by Gas Chromatography Method 24: Determination of Volatile Matter Content, Water Content, Density, Volume Solids, and Weight Solids of Coatings Method 25: Determination of Total Gaseous Nonmethane Organic Emissions Method 204: Determine Capture Efficiency of Volatile Organic Compounds Appendix M of 40 CFR 51</p> | Appendix A 40 CFR 60 Appendix M 40 CFR 51 |

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| | Section 4 – Emission Monitoring | |
| | Not Applicable | |
| | Section 5 – Recordkeeping and Reporting Requirements | |
| 18 | <p><u>Operation and Maintenance Manual (Work Practice Standards)</u></p> <p>The permittee shall submit to this Department for approval an Operation and Maintenance (O & M) Plan for the reinforced fiberglass plastic composite products pultrusion machines, wet area enclosures, injection molding machines, canister filter baghouse, particulate emissions collection system, VOC/HAP storage tanks, record keeping procedures and spill containment. The permittee shall submit to the Department a draft of the O & M Plan within 60 days of receiving this Operating Permit.</p> | 18.5 Subpart WWW Table 4 |
| 19 | <p><u>Daily Recordkeeping - Styrene & VOC Compliance Demonstration</u></p> <p>In order to demonstrate compliance with the styrene (HAP) and VOC emissions limitations and equipment requirements in this Title V Major Source Operating Permit, the permittee shall maintain daily records of the Emissions Unit No.s 002, 003, 004, 005, 019, 020, 021, 022, 023, 028, 029 (Non-RF Small Pultrusion Machines), 016, 017, 031 040 & 041(Large Pultrusion Machines) permitted herein in a format approved by the Department of the actual usage of all styrene (HAP) and VOC containing materials and the styrene (HAP) and VOC emissions generated by all processes that occur within the Major Source permitted herein. The normalize time period to determine enclosure performance is 8 hrs. even when batch run times may be longer. The styrene (HAP) and VOC emissions shall be estimated using the manufacturer's material formulation data, material balance of styrene (HAP) and VOC containing materials used, and the best available emission factors.</p> <p>For Non-RF Small Pultrusion Machines the EPA approved emission factor for styrene of 2.48% by weight of available styrene in wet resin shall be used for "controlled emissions" when the wet area is enclosed, and 12.48% when the wet area enclosure is removed or open for "uncontrolled emissions." VOC from the addition of a catalyst shall be calculated as all of the available VOC in the catalyst as evaporated.</p> <p>For Large Pultrusion Machine No.'s 016, 017, 040 & 041the EPA approved emission factor for HAP/VOC of 3.97% by weight of available HAP/VOC in wet resin shall be used for "controlled emissions" when the wet area is enclosed, and 12.48% when the wet area enclosure is removed or open for "uncontrolled emissions." VOC from the addition of a catalyst shall be calculated as all of the available VOC in the catalyst as evaporated.</p> <p>For Large Pultrusion Machine No. 031 the EPA approved emission factor for HAP/VOC of 4.76% by weight of available HAP/VOC in wet resin shall be used for "controlled emissions" when the wet area is enclosed, and 14.98% when the wet area enclosure is removed or open for "uncontrolled emissions." VOC from the addition of a catalyst shall be calculated as all of the available VOC in the catalyst as evaporated.</p> <p>For all pultrusion machines the EPA approved emission factor for mixing emissions is 0.00031lbs HAP/VOC/lbs resin mixture.</p> <p>The daily record shall contain the following information, as a minimum:</p> <ol style="list-style-type: none"> Manufacturer, product name, and product number of the resins, catalysts, monomers, fillers, pigments, additives and solvents (exclude VOC-exempt acetone) used; Density (lb/gal), solids content, VOC content, and individual HAP content of the resins, catalysts, monomers, fillers, pigments, additives and solvents (exclude VOC-exempt acetone) used; The preceding contents shall be expressed in percent weight. The quantity in gallons or pounds of resins, catalysts, monomers, fillers, pigments, additives and solvents (excluding VOC-exempt acetone) used; The actual hours of operation of the fiberglass plastic composite products pultrusion line; The number of complete shifts (normalize to 8hrs) that the pultrusion line operated in a day (24 hours); | 1.5.15 18.5 CAA 112(d) 40 CFR 63, Subpart A |

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| | <p>F. The actual VOC/HAP emissions of the pultrusion line. Determine the emission rate of VOC and styrene for the calendar day (This emissions rate determination shall be completed within each operational week.);</p> <p>G. The quantity in gallons or pounds of waste resins, catalysts, monomers, fillers, pigments, additives and solvents (including VOC-exempt acetone) disposed of properly (example: sent to a waste solvent recovery facility or incinerated); (Certification of the VOC and HAP content of the waste shall be reported in percent weight.);</p> <p>H. A daily inspection record of the wet area enclosure; The record shall state the condition (e. g., inspection for warping, cracks or other defects) of the wet area enclosure;</p> <p>I. A record of all spills or accidents involving the evaporation of resins, catalysts, monomers, fillers, pigments, additives and solvents; An estimate in pounds shall be determined of the amount of VOC/HAP evaporated to the atmosphere. The record shall include the date and time of the spill or accident;</p> <p>J. A record shall be made of when the wet area enclosure has been off the resin bath; Record the time taken off and put back on the resin bath. Provide the reason why the wet area enclosure was removed. Record the daily hours per work shift that the access hatches were open for each pultrusion line;</p> <p>K. The daily records shall be kept in the units necessary to verify compliance with the permit conditions of this Operating Permit; and</p> <p>L. Operator and supervisor signature.</p> | |
| 20 | <p><u>Annual Production and Emissions Report</u> The permittee shall submit by February 10th of each year to this Department an annual summary report for the previous calendar year in a format approved by this Department of the following production and emissions information of the Major Source permitted herein:</p> <p>A. The total quantity in gallons or pounds of resins, catalysts, monomers, fillers, pigments, additives and solvents (excluding VOC-exempt acetone) used (The usage shall be assigned to the emission unit where used);</p> <p>B. The density (lb/gal), VOC content, solids content, exempt VOC content and individual HAP content of all resins, catalysts, monomers, fillers, pigments, additives and solvents (excluding VOC-exempt acetone) used (The preceding contents shall be expressed in percent weight);</p> <p>C. The quantity in gallons or pounds of waste resins, catalysts, monomers, fillers, pigments, additives and solvents (including VOC-exempt acetone) disposed of properly (i.e., sent to a waste solvent recovery facility or incinerated), (Certification of the VOC, HAP, solids and exempt VOC content of the waste shall be reported in percent weight);</p> <p>D. The actual hours of operation of the pultrusion line;</p> <p>E. The number of complete shifts (normalized to 8hrs) that the pultrusion line operated;</p> <p>F. The quantity in gallons and pounds per year of volatile organic compound liquids lost due to spillage or other mishaps; (The type or name of the lost volatile organic compound liquids shall be reported. The date, time, and quantity of each spill or mishap);</p> <p>G. The actual emissions of all regulated air pollutants as defined in Chapter 18 of the Rules and Regulations including all individual HAP emissions (The emissions shall be assigned to the emissions unit where the emissions occurred.);</p> <p>H. The quantity of fuels (natural gas, propane, LPG, gasoline, diesel fuel) burned within the facility; and</p> <p>I. The permittee shall maintain copies of all purchase orders and invoices of resins, catalysts, monomers, fillers, pigments, additives and solvents (including VOC-exempt acetone) used for a minimum of 5 years. Onsite records must be retained for a minimum of 2 years.</p> | <p>1.5.15 18.5</p> |
| 21 | <p><u>Notification of Violations</u> The permittee shall submit a report to the Department within 2 working days after determining any violations of emissions or production operating permit condition restrictions and any Rule or Regulation.</p> | <p>18.5.3</p> |

Emissions Unit Operating Permit Summary

RF Large Pultrusion Lines

Emission Unit No.s: 007, 008, 009, 010, 011, 015, & 018

Description: Reinforced Fiberglass Plastic Composite Products Manufacturing Processes Including: Styrene/Epoxy Pultrusion Production Line with a Radio Frequency Pre-Heat Unit, Plastic Products Sawing, Sanding, and Grinding and Drilling Machines with Particulate Emissions Capture and Canister Filter Control System.

Permitted Operating Schedule: 8,760 hours/year

Type and quantity of fuel used:

Primary: None

Secondary: None

Pollutants Emitted:

| Pollutant | Permit Emission Limits | Applicable Standard |
|-------------------------------------|------------------------|----------------------------------|
| Volatile Organic Compounds (VOC) | 60% VOC reduction | 40 CFR 63, Subpart WWWW, Table 3 |
| Styrene (CAS # 100425) (Single HAP) | 60% HAP reduction | 40 CFR 63, Subpart WWWW, Table 3 |
| Particulates (PM) | $E = 3.59P^{0.62}$ | Section 6.4.1 |
| Visible Emissions (VE) | Less than 20 % | Section 6.1.1 |
| Epoxy Service (VOC/HAP) | No HAP/VOC allowed | 18.5.13 |

Pollution Control Devices:

Wet Area Enclosures VOC/HAP Operation
Particulate Canister Filter Baghouse

Periodic Emissions Monitoring:

Daily Visible Emissions Check of Baghouse Exhaust
Daily Inspection Check of Wet Area Enclosures

Continuous Compliance Determiner:

Daily Records of Styrene-Containing Compounds Usage
Daily Records of VOC/HAP-Containing Compounds Usage
Daily Work Practice Standards

EPA Reference Test Methods:

40 CFR 60, 40 CFR 51

Quality Assurance Procedures:

Operation and Maintenance Plan

Applicable Regulations:

Sections 6.1.1, & 6.4.1 and Parts 2.6 & 18.5 and Chapters 6, 16 & 18, Section 112(g)(2)(B), and Section 112(d) of CAAA

Quality Assurance Procedures:

Operation and Maintenance Plan

Reporting Requirements:

Refer to Permit Conditions 20 & 21

Applicable Regulations:

Sections 6.1.1, & 6.4.1 and Part 18.5 and Chapters 6, 16 & 18

Alternate Operations:

Section 18.5.13

| No. | Regulation |
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| | Section 1 – Applicability |
| 1 | <p><u>Applicability</u> The Emissions Unit No.s 007, 008, 009, 010, 011, 015, & 018 Plastic Composite Products Manufacturing Processes permitted herein shall include all of the equipment and operations of the pultrusion lines, including but not limited to, cleaning solvents, fiberglass, resins, catalysts, fillers, pigments, cutting saws, grinders, sanders, drills, particulate emissions collection and control systems, and waste collection and disposal. The emissions unit is subject to the particulate and visible emissions restrictions of Chapter 6 of the Rules and Regulations. The emissions unit is subject to the operating permit emissions fees of Chapter 16 and to the major source operating permit requirements of Chapter 18 of the Rules and Regulations. Additionally, the permittee is subject to and comply with Subpart WWW-National Emission Standards for Hazardous Air Pollutants (NESHAP) as proposed under 40 CFR 63.</p> |
| | Section 2 – Emission, Equipment or Production Requirements and Limitations |
| 2 | <p><u>Styrene Emissions Restriction</u> The permittee shall not allow or cause Emissions Unit No.s 007, 008, 009, 010, 011, 015, & 018 permitted herein to have a less than 60% HAP reduction from uncontrolled operations. Normalize time period to determine enclosure performance is 8 hrs. even when batch run times may be longer. Maintenance of records will be based on the 8 hr. normalized run time per batch. Emissions as determined by material balance, manufacturer's material formulation data, the most recent source emissions test, and EPA's latest emission factors.</p> |
| 3 | <p><u>VOC Emissions Restrictions</u> The permittee shall not operate Emissions Unit No.s 007, 008, 009, 010, 011, 015, & 018 permitted herein to have a less than 60% VOC reduction from uncontrolled operations. Normalize time period to determine enclosure performance is 8 hrs. even when batch run times may be longer. Maintenance of records will be based on the 8 hr. normalized run time per batch. Emissions as determined by material balance, manufacturer's material formulation data, the most recent source emissions test, and EPA's latest emission factors.</p> |
| 4 | <p><u>Visible Emissions Restriction</u> The Emissions Unit No. 007, 008, 009, 010, 011, 015, & 018 (sawing, sanding, grinding, and drilling machines with a canister filter baghouse) permitted herein is subject to and shall comply with the requirements under Section 6.1.1, entitled "Visible Emissions Restrictions for Stationary Sources," of the Rules and Regulations. The permittee shall not cause or allow the discharge into the atmosphere from the particulate emissions sources permitted herein any air contaminant of an equivalent opacity greater than that designated as 20% opacity, as determined by a 6 minute average; except, during one 6 minute period in any 60 minute period, the permittee may discharge into the atmosphere any air contaminant of an equivalent opacity not greater than that designated as 40% opacity. Compliance with the opacity standard in this condition shall be determined by conducting observations in accordance with US EPA Reference Method 9 in Appendix A of 40 CFR 60, April 6, 2018, as the same may be amended or revised. As an alternative method of periodic monitoring, the permittee shall perform a visual check and make a record of the visual check of the exhaust stack of the canister filter baghouse for any visible emissions at least once per operating day. If any visible emissions are observed, the permittee shall immediately correct the problem causing the source to emit visible emissions or shut down the particulate emissions sources. A record of the malfunction shall be created and maintained. The permittee shall notify the Department of which compliance method it elects to meet as noted within condition 6, herein.</p> |
| 5 | <p><u>Particulate Emissions Restriction</u> The Emissions Unit No.s 007, 008, 009, 010, 011, 015, & 018 (sawing, sanding, grinding, and drilling machines with a canister filter baghouse) permitted herein is subject to and shall comply with the requirements under Part 6.4, entitled "Process Industries - General," of the Rules and Regulations. The permittee shall not cause or allow the emissions of particulate matter from the particulate emissions sources permitted herein in excess of that allowed under the process weight formula under Section 6.4.1 of the Rules and Regulations as determined by US EPA Reference Method 5 of Appendix A of 40 CFR 60, April 6, 2018, as the same may be amended or revised.</p> <p>$E = 3.59 P^{0.62}$ Where: $P < 30$ tons/hour</p> |

| | <p>P = Process Weight in Tons Per Hour E = Allowable Pounds per Hour Emission Rate</p> | |
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| 6 | <p><u>Particulate Emissions Control Maintenance</u> The permittee shall maintain in-stock at least 6 new or cleaned and recycled filter canisters in proper working order for the particulate emissions control device permitted herein.</p> | 18.5 |
| 7 | <p><u>Wet Area Enclosure Requirements</u> <u>Styrene Plastic Composite Production Only</u> The permittee shall install, operate and maintain a wet area enclosure on Emissions Unit No.'s No.s 007, 008, 009, 010, 011, 015, & 018 permitted herein. The wet area enclosure surrounding the resin bath of the source permitted herein shall cover and enclose the open-top resin bath and forming area in which reinforcements are wet out and are moving toward the dies. The surfaces of the wet area enclosure shall be closed except for openings to allow material to enter and exit the wet area enclosure. The wet area enclosures shall not be removed from the pultrusion line or the access panel doors, and/or hatches open for more than 30 minutes per 8 hour work shift (45 minutes for a 12 hour work shift, or 90 minutes per day if the machine is operated for 24 hours in a day) for repairs or maintenance when the resin bath has resin in it, as determined by the required daily records, except when the permittee elects to meet the alternate compliance method as noted in condition 8 of this emissions unit.</p> | 18.5.1 CAA 112(g) CAA 112(d) 40 CFR 63, Subpart WWWW 63.5830 |
| 8 | <p><u>Alternative Compliance Method-Wet Area Enclosure Requirements</u> <u>Styrene Plastic Composite Production Only</u> The permittee shall install, operate and maintain a wet area enclosure on the Emissions Unit No.s 007, 008, 009, 010, 011, 015, & 018 permitted herein. The wet area enclosure surrounding the resin bath of the source permitted herein shall cover and enclose the open-top resin bath and forming area in which reinforcements are wet out and are moving toward the dies. The surfaces of the wet area enclosure shall be closed except for openings to allow material to enter and exit the wet area enclosure. The wet area shall not be opened for more than a composite average of 30 minutes per pultrusion line per 8 hour work shift. All machines that operate during a day (24 hrs) shall be normalized to an 8 hr time period with the number of machines that meet 8 hrs of operation allowed 30 minutes of bath covers up. Any machine can exceed the 30 minute standard as long as the 30 minute per machine is not exceeded by the composite number of machines meeting continuous operation in a normalize 8 hr shift. In any calendar day there is a potential of three (3) 8 hr shift. Please note machines running must be in the styrene mold with resin in the resin bath. Cross averaging between 8 hr shift is not allowed. The pultrusion lines that operate less than an entire shift must meet the primary standard condition 7 of this emissions unit and is not allowed to be composite averaged.</p> | 18.5.1 CAA 112(g) 40 CFR 63, Subpart WWWW |
| 9 | <p><u>Alternative Operating Scenarios – Operational Flexibility</u> In accordance with Chapter 18 of the Rules and Regulations and Section 70.6(a)(9) of the CAA, the permitted facility is authorized to make changes in operations of Emissions Unit No.'s 007, 008, 009, 010, 011, 015, & 018 within the facility without a permit revision, if the changes are not modifications under Title I of the Act and the changes do not exceed the emissions limits as stipulated within this permit.</p> <p>The permittee is allowed to make the following changes to its method of operations for Emissions Unit No.s 007, 008, 009, 010, 011, 015, & 018:</p> <ul style="list-style-type: none"> A. The permittee is allowed to change its material formulation from epoxy plastic composites production to styrene plastic composites or from styrene plastic composite production to epoxy plastic production by meeting the requirements of monitoring and recordkeeping as prescribed in this emissions unit; B. The permittee shall keep a contemporaneous record of all changes among alternate scenarios in an on-site log; C. The permittee shall meet all requirement of Subpart WWWW when in styrene plastic composite manufacturing; and D. The permittee shall meet all the requirements of recordkeeping and reporting within this Emissions Unit except: | 18.5.13 Section 70.6(a)(9) CAA Subpart WWWW |

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| | The permittee is not required to have a MACT control device as stipulated in Subpart WWWW or maintain related records when epoxy plastic composite products are being manufactured. | |
| 10 | <p><u>Wet Area Enclosure Requirements</u> <u>Styrene Plastic Composite Production Only</u> The permittee shall install, operate and maintain a wet area enclosure on the Emissions Unit No.s 007, 008, 009, 010, 011, 015, & 018 permitted herein during styrene plastic composite production. The wet area enclosure surrounding the resin bath of the source permitted herein shall cover and enclose the open-top resin bath and forming area in which reinforcements are wet out and are moving toward the dies. The surfaces of the wet area enclosure shall be closed except for openings to allow material to enter and exit the wet area enclosure. Exceptions to this rule are when repairs or maintenance must be performed to the wet area during periods when resins are within the resin bath.</p> | 18.5.1 CAA 112(g) CAA 112(d) 40 CFR 63, Subpart WWW 63.5830 |
| 11 | <p><u>Wet Area Enclosure Requirements</u> <u>Styrene Plastic Composite Production Only</u> For the Emissions Unit No.s 007, 008, 009, 010, 011, 015, & 018 with a radio frequency (RF) pre-heat unit permitted herein, the permittee shall install, operate, and maintain the wet area enclosure to extend from the beginning of the resin bath to within 12.5 inches or less of the entrance of the RF pre-heat unit. If the stock is within 12.5 inches or less of the entrance to the RF pre-heat unit has any drip, it must be enclosed. The stock exiting the RF pre-heat unit is not required to be enclosed if the stock has no resin drip off between the exit of the RF pre-heat unit to within 0.5 inches of the entrance of the dies. During epoxy plastic composites production the wet area enclosure, including the enclosure of any drip, is not required.</p> | 18.5.1 40 CFR 63, Subpart WWW 63.5830 |
| 12 | <p><u>Wet Area Enclosure Requirements</u> <u>Styrene Plastic Composite Production Only</u> The pultrusion line enclosure can only be constructed high enough to clear the highest part of the protrusion line that must be inside the enclosure. The total open area of the enclosure must not exceed 2 times the cross sectional area of the puller window(s) and must comply with the following requirements:</p> <ul style="list-style-type: none"> A. All areas which are open need to be included in the total open area calculation with the exception of access panels, doors, and/or hatches that are part of the enclosure. B. The area which is displaced by entering reinforcement or existing product is considered open. C. Areas that are covered by brush covers are considered closed. | 18.5.1 40 CFR 63, Subpart WWW 63.5830 |
| 13 | <p><u>Wet Area Enclosure Requirements</u> <u>Styrene Plastic Composite Production Only</u> The permittee shall not allow or cause the total open area of the wet area enclosure of the Emissions Unit No.s 007, 008, 009, 010, 011, 015, & 018 permitted herein to exceed 5.0 % of the following calculated surface area (A) of the wet area enclosure:</p> $A = 2(HL + HW + LW)$ <p>where,</p> <ul style="list-style-type: none"> A = Surface Area of wet area enclosure (inches²). H = Height measured from the top of the resin bath to the top of the wet area enclosure. The height of the enclosure shall not be greater than 1.75 times the depth of the resin bath (inches). L = Length measured from the beginning of the resin bath to within 12.5 inches (or less as applicable) of the RF pre-heat unit or to within 0.5 inches of the die entrance for the pultrusion machines without RF pre-heat units (inches). W = Width of the resin bath (inches). <ul style="list-style-type: none"> A. All areas that are considered open shall be counted in the total open area calculation. B. The area that is displaced by the entering reinforcement or exiting product shall be considered open. C. All areas that are covered by thick brush covers shall be considered closed. | 18.5.1 40 CFR 63, Subpart WWW |

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| 14 | <p><u>Wet Area Enclosure Requirements</u> <u>Styrene Plastic Composite Production Only</u> For the Emissions Unit No.s 007, 008, 009, 010, 011, 015, & 018 the permittee shall not allow or cause the open area of the wet area enclosure for level control devices, monitoring devices, agitation shafts, resin recirculating pump pipes and/or fill hoses to exceed 1 inch clearance.</p> | 1 8.5.1 40 CFR 63, Subpart WWW 63.5830 |
| 15 | <p><u>Wet Area Enclosure Requirements</u> <u>Styrene Plastic Composite Production Only</u> The permittee shall not allow or cause the access panels, doors, and/or hatches that are a part of the wet area enclosure of Emissions Unit No.s 007, 008, 009, 010, 011, 015, & 018 (Pultrusion Line No. 007, 008, 009, 010, 011, 015, & 018) permitted herein to remain open except when operations require it or when opening/closing of the resin manual feed valve is necessary. The access panels, doors, and/or hatches shall close tightly to avoid vapor leakage.</p> | 18.5.1 40 CFR 63, Subpart WWW 63.5830 |
| 16 | <p><u>Wet Area Enclosure Requirements</u> <u>Styrene Plastic Composite Production Only</u> The permittee shall not allow or cause fans, blowers, and/or air lines within the wet area enclosure of Emissions Unit No.'s 007, 008, 009, 010, 011, 015, & 018 (Pultrusion Line No.s 007, 008, 009, 010, 011, 015, & 018) permitted herein. The wet area enclosures shall not be ventilated in any manner.</p> | 2.1.3 18.5.1 |
| 17 | <p><u>Wet Area Enclosure</u> <u>Styrene Plastic Composite Production Only</u> For the resin drip off at the die entrances of Emissions Unit No.s 007, 008, 009, 010, 011, 015, & 018 (Pultrusion Line No.s 007, 008, 009, 010, 011, 015, & 018) that has a RF pre-heat unit permitted herein, the permittee shall install, operate and maintain a resin drip off system that collects and channels the resin drip off through a closed pipe or covered trough into a collection container such that the following conditions are met:</p> <ul style="list-style-type: none"> A. The maximum allowable vertical distance that the resin may drip through the open air from the bottom of the die to the closest point of the closed pipe or covered trough shall not exceed 1.0 inch. B. The size of the opening in the pipe or trough that collects the resin drip off shall be no longer than the width of the die and no wider than 1.0 inch. C. The maximum allowable vertical distance that the resin drip off may be exposed to air from the exit of the closed pipe or covered trough to the opening of the container shall not exceed 6.0 inches. D. The size of the opening in the container that collects the resin drip off shall not exceed 1 inch in diameter. A funnel may be used to aid in the collection of the resin drip off. E. When the resin drip-off collection container is full or not in use, the permittee shall close the container and dispose of properly or immediately recycle into the resin bath. | 18.5.1 CAA 112(g) Subpart WWW 63.5830 |
| 18 | <p><u>Waste Resin and Solvent Disposal</u> The permittee shall collect and properly contain as much as possible of the waste resins, catalysts, monomers, fillers, pigments, additives and solvents (including VOC-exempt acetone) that are not reusable. The permittee shall not store any VOC/HAP containing materials in open containers or dispose of the materials in sewers, trash bins, or other methods of disposal that allows the materials to evaporate to the atmosphere. Records of the method of disposal shall be maintained.</p> | 18.5 |
| Section 3 – Compliance and Performance Test Methods and Procedures | | |
| 19 | <p><u>EPA Reference Test Methods and Procedures</u> The permittee shall determine compliance with the particulate emissions, VOC emissions, styrene emissions and visible emissions restrictions of this operating permit by the following EPA's reference methods under 40 CFR 60, Appendix A, as the same may be amended or revised:</p> <ul style="list-style-type: none"> Method 1: Sample and Velocity Traverses Method 2: Determination of Stack Gas Velocity and Volumetric Flow Rate Method 3: Gas Analysis for Carbon Monoxide, Oxygen, Excess Air, and Dry Molecular Weight Method 4: Determination of Moisture Content in Stack Gases Method 5: Determination of Particulate Emissions Method 9: Visual Determination of the Opacity of Emissions | Appendix A 40 CFR 60 Appendix M 40 CFR 51 |

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| | <p>Method 18: Measurement of Gaseous Organic Compound Emissions by Gas Chromatography</p> <p>Method 24: Determination of Volatile Matter Content, Water Content, Density, Volume Solids, and Weight Solids of Coatings</p> <p>Method 25: Determination of Total Gaseous Nonmethane Organic Emissions</p> <p>Method 204: Determine Capture Efficiency of Volatile Organic Compounds</p> <p>Appendix M of 40 CFR 51</p> | |
| | Section 4 – Emission Monitoring | |
| | Not Applicable | |
| | Section 5 – Recordkeeping and Reporting Requirements | |
| 20 | <p>Operation and Maintenance Manual (Work Practice Standards)</p> <p>The permittee shall submit to this Department for approval an Operation and Maintenance (O & M) Plan for the reinforced fiberglass plastic composite products pultrusion machines, wet area enclosures, canister filter baghouse, particulate emissions collection system, VOC/HAP storage tanks, recordkeeping procedures and spill containment. The permittee shall submit to the Department a draft of the O & M Plan within 60 days of receiving this Operating Permit.</p> | <p>2.1.3</p> <p>18.5</p> <p>40 CFR 63, Subpart WWW, Table 4</p> |
| 21 | <p>Daily Recordkeeping – VOC & HAP Compliance Demonstration</p> <p>In order to demonstrate compliance with the non-VOC/HAP and VOC/HAP emissions limitations and equipment requirements in this Title V Major Source Operating Permit, the permittee shall maintain daily records of the Emissions Unit No.s 007, 008, 009, 010, 011, 015, & 018 permitted herein in a format approved by the Department of the actual usage of all VOC, and HAP containing materials and VOC/HAP emissions generated by all processes that occur within the Major Source permitted herein. The normalize time period to determine enclosure performance is 8 hrs. even when batch run times may be longer. The VOC/HAP emissions shall be estimated using the manufacturer's material formulation data, material balance of VOC/HAP containing materials used, and the best available emission factors. The Department-approved emission factor for VOC/HAP of 3.97% by weight of available VOC/HAP in the wet resin shall be used for "controlled emissions" when the wet area is enclosed, and 12.48% when the wet area enclosure is removed or open for "uncontrolled emissions." For all pultrusion machines the EPA approved emission factor for mixing emissions is 0.00031lbs HAP/VOC/lbs resin mixture. The daily record shall contain the following information, as a minimum:</p> <ol style="list-style-type: none"> Manufacturer, product name, and product number of the resins, catalysts, monomers, fillers, pigments, additives and solvents (excluding VOC-exempt acetone) used; Density (lb/gal), solids content, VOC/HAP content of the resins, catalysts, monomers, fillers, pigments, additives and solvents (excluding VOC-exempt acetone) used (The preceding contents shall be expressed in percent weight.); The quantity in gallons or pounds of resins, catalysts, monomers, fillers, pigments, additives and solvents (excluding VOC-exempt acetone) used; The actual hours of operation of the fiberglass plastic composite products pultrusion line; The number of complete shifts (normalize to 8hrs) that the pultrusion line operated in a day (24 hours); The actual VOC/HAP emissions of the pultrusion line; Determine the emission rate of VOC/HAP for the calendar day; (This emissions rate determination shall be completed within each operational week.) The quantity in gallons or pounds of waste resins, catalysts, monomers, fillers, pigments, additives and solvents (including VOC-exempt acetone) disposed of properly (example: sent to a waste solvent recovery facility or incinerated); (Certification of the VOC/HAP content of the waste shall be reported in percent weight.) A daily inspection record of the wet area enclosure when emissions units are in styrene plastic composite production; (The record shall state the condition (e. g., inspection for warping, cracks or other defects) of the wet area enclosure.) A record of all spills or accidents involving the evaporation of resins, catalysts, monomers, fillers, pigments, additives and solvents; (An estimate in pounds shall be determined of the amount of VOC evaporated to the atmosphere. The record shall include the date and time of the spill or accident.) | <p>1.5.15</p> <p>2.1.3</p> <p>18.5</p> |

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| | <p>J. A record shall be made of when the wet area enclosure has been removed or open at the resin bath during styrene plastic composite production. Records of the time when the enclosure is removed-replaced or open-closed are to be maintained. Record the daily hours per work shift that the enclosure was removed-replaced or open-closed;</p> <p>K. The daily records shall be kept in the units necessary to verify compliance with the permit conditions of this Operating Permit; and</p> <p>L. Operator and supervisor signature.</p> | |
| 22 | <p><u>Annual Production and Emissions Report</u></p> <p>The permittee shall submit by February 10th of each year to this Department an annual summary report for the previous calendar year in a format approved by this Department the following production and emissions information of the Major Source permitted herein:</p> <p>A. The total quantity in gallons or pounds of resins, catalysts, monomers, fillers, pigments, additives and solvents (excluding VOC-exempt acetone) used (The usage shall be assigned to the emission unit where used.);</p> <p>B. The density (lb/gal), VOC content, solids content, exempt VOC content and individual HAP content of all resins, catalysts, monomers, fillers, pigments, additives and solvents (excluding VOC-exempt acetone) used (The preceding contents shall be expressed in percent weight);</p> <p>C. The quantity in gallons or pounds of waste resins, catalysts, monomers, fillers, pigments, additives and solvents (including VOC-exempt acetone) disposed of properly (i.e., sent to a waste solvent recovery facility or incinerated); Certification of the VOC, HAP, solids and exempt VOC content of the waste shall be reported in percent weight.</p> <p>D. The actual hours of operation of the pultrusion machine line;</p> <p>E. The number of complete shifts (normalized to 8hrs) that the pultrusion line operated;</p> <p>F. The quantity in gallons and pounds per year of volatile organic compound liquids lost due to spillage or other mishaps; (The type or name of the lost volatile organic compound liquids shall be reported. The date, time, and quantity of each spill or mishap.)</p> <p>G. The actual emissions of all regulated air pollutants as defined in Chapter 18 of the Rules and Regulations including all individual HAP emissions; (The emissions shall be assigned to the emissions unit where the emissions occurred.)</p> <p>H. The quantity of fuels (natural gas, propane, LPG, gasoline, diesel fuel) burned within the facility; and</p> <p>I. The permittee shall maintain copies of all purchase orders and invoices of resins, catalysts, monomers, fillers, pigments, additives and solvents (including VOC-exempt acetone) used for a minimum of 5 years. Onsite records must be retained for a minimum of 2 years.</p> | <p>1.5.15 18.5</p> |
| 23 | <p><u>Notification of Violations</u></p> <p>The permittee shall submit a report to the Department within 2 working days after determining any violations of emissions or production Operating Permit condition restrictions and any Rule or Regulation.</p> | <p>2.1.3 18.5.3</p> |

Emission Unit Operating Permit Summary

Emissions Unit No.s: 012 & 014

Company: Glasforms, Inc.

Description: Reinforced Fiberglass Plastic Composite Products Manufacturing Processes Including: Injection Molding Machine Production Line No.s 12 and 14, Plastic Products Sawing, Sanding, and Grinding and Drilling Machines with Particulate Emissions Capture and Canister Filter Control System.

Permitted Operating Schedule: 8,760 hours/year

Type and quantity of fuel used:

Primary: None

Secondary: None

Pollutants Emitted:

| Pollutant | Permit Emission Limits | Applicable Standard |
|-------------------------------------|------------------------|----------------------------------|
| Volatile Organic Compounds (VOC) | 1.5% Emissions Rate | 40 CFR 63, Subpart WWWW, 63.5790 |
| Styrene (CAS # 100425) (Single HAP) | 1.5% Emissions Rate | 40 CFR 63, Subpart WWWW, 63.5790 |
| Particulates (PM) | $E = 3.59P^{0.62}$ | Section 6.4.1 |
| Visible Emissions (VE) | Less than 20 % | Section 6.1.1 |
| Epoxy Service (VOC/HAP) | No HAP/VOC allowed | 18.5.13 |

Pollution Control Devices:

Particulate Canister Filter Baghouse

Periodic Emissions Monitoring:

Daily Visible Emissions Check of Baghouse Exhaust

Continuous Compliance Determiner:

**Daily Records of Styrene-Containing Compounds Usage
Daily Records of VOC/HAP-Containing Compounds Usage**

EPA Reference Test Methods:

40 CFR 60, 40 CFR 51

Quality Assurance Procedures:

Operation and Maintenance Plan

Reporting Requirements:

Refer to Permit Conditions 11 & 12

Applicable Regulations:

Sections 6.1.1, & 6.4.1 and Parts 2.6 & 18.5 and Chapters 6, 16 & 18, Section 112(g)(2)(B), and Section 112(d) of CAAA

| No. | | Regulation |
|-----|---|---|
| | Section 1 – Applicability | |
| 1 | <p><u>Applicability</u></p> <p>The Emissions Unit No.s 012 & 014 (Reinforced Fiberglass Plastic Composite Products Manufacturing Processes – Injection Molding Machine Line No.s 12 & 14) permitted herein shall include all of the equipment and operations of the injection molding lines, including but not limited to, cleaning solvents, fiberglass, resins, monomers, catalysts, fillers, pigments, cutting saws, grinders, sanders, drills, particulate emissions collection and control systems, and waste VOC/HAP collection and disposal. The emissions unit is subject to the particulate and visible emissions restrictions of Chapter 6 of the Rules and Regulations. The emissions unit is subject to the operating permit emissions fees of Chapter 16 and to the major source operating permit requirements of Chapter 18 of the Rules and Regulations.</p> | Chapter 6 Chapter 16 Chapter 18 40 CFR 63, Subpart WWW, 63.5790 |
| | Section 2 – Emission, Equipment or Production Requirements and Limitations | |
| 2 | <p><u>Styrene Emissions Restriction</u></p> <p>The permittee shall not allow or cause Emissions Unit No.s 012 & 014 (Injection Molding Line No. 12 & 14) permitted herein and all other facility-wide point and fugitive sources to emit more than 1.5% HAP from the injection molding machines during operations. Run times shall be normalized to and 8 hour time period even when batch run times may be longer. Styrene emissions shall be determined by material balance, manufacturer's material formulation data, the most recent source emissions test and EPA's latest emission factors. The styrene emissions rate shall be averaged over the actual hours of operation during a calendar day.</p> | 18.5 |
| 3 | <p><u>VOC Emissions Restrictions</u></p> <p>The permittee shall not allow or cause Emissions Unit No.s 012 & 014 (Injection Molding Line No. 012 & 014) permitted herein and all other facility-wide point and fugitive sources to emit more than 1.5% VOC from the injection molding machines during operations. Run times shall be normalized to and 8 hour time period even when batch run times may be longer. The VOC emissions shall be determined material balance, manufacturer's material formulation data, the most recent source emissions test and EPA's latest emission factors. The VOC emissions rate shall be averaged over the actual hours of operation during a calendar day.</p> | 18.5 |
| 4 | <p><u>Visible Emissions Restriction</u></p> <p>The Emissions Unit No.s 012 & 014 (sawing, sanding, grinding, and drilling machines with a canister filter baghouse) permitted herein is subject to and shall comply with the requirements under Section 6.1.1, entitled "Visible Emissions Restrictions for Stationary Sources," of the Rules and Regulations. The permittee shall not cause or allow the discharge into the atmosphere from the particulate emissions sources permitted herein any air contaminant of an equivalent opacity greater than that designated as 20% opacity, as determined by a 6 minute average; except, during one 6 minute period in any 60 minute period, the permittee may discharge into the atmosphere any air contaminant of an equivalent opacity not greater than that designated as 40% opacity. Compliance with the opacity standard in this condition shall be determined by conducting observations in accordance with US EPA Reference Method 9 in Appendix A of 40 CFR 60, August 30, 2016, as the same may be amended or revised. As an alternative method of periodic monitoring, the permittee shall perform a visual check and make a record of the visual check of the exhaust stack of the canister filter baghouse for any visible emissions at least once per operating day. If any visible emissions are observed, the permittee shall immediately correct the problem causing the source to emit visible emissions or shut down the particulate emissions sources. A record of the malfunction shall be created and maintained. The permittee shall notify the Department of which compliance method it elects to meet as noted within condition 4, herein.</p> | 6.1.1 18.5 |

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| 5 | <p><u>Particulate Emissions Restriction</u></p> <p>The Emissions Unit No.s 012& 014 (sawing, sanding, grinding, and drilling machines with a canister filter baghouse) permitted herein is subject to and shall comply with the requirements under Part 6.4, entitled "Process Industries - General," of the Rules and Regulations. The permittee shall not cause or allow the emissions of particulate matter from the particulate emissions sources permitted herein in excess of that allowed under the process weight formula under Section 6.4.1 of the Rules and Regulations as determined by US EPA Reference Method 5 of Appendix A of 40 CFR 60, August 30, 2016, as the same may be amended or revised.</p> <p>$E = 3.59 P^{0.62}$ Where: $P < 30$ tons/hour P = Process Weight in Tons Per Hour E = Allowable Pounds per Hour Emission Rate</p> | 6.4.1 18.5 |
| 6 | <p><u>Particulate Emissions Control Maintenance</u></p> <p>The permittee shall maintain in-stock at least 6 new or cleaned and recycled filter canisters in proper working order for the particulate emissions control device permitted herein.</p> | 18.5 |
| 7 | <p><u>HAP/VOC Restriction</u></p> <p>The Emissions Unit No.s 012 & 014 shall be limited in operation to a continuous totally enclosed raw material loading stage (fiberglass, resins, monomers, catalysts, fillers, and pigments). The utilization of "staged charging" by the use of uncovering, unwrapping or exposing one charge per mold cycle is not permitted.</p> | 18.5 |
| 8 | <p><u>Waste Resin and Solvent Disposal</u></p> <p>The permittee shall collect and properly contain, as much as possible, the waste resins, catalysts, monomers, fillers, pigments, additives and solvents (including VOC-exempt acetone) that are not reusable. The permittee shall not store any VOC/HAP containing materials in open containers or dispose of the materials in sewers, trash bins, or other methods of disposal that allows the materials to evaporate to the atmosphere. Records of the method of disposal shall be maintained.</p> | 18.5 |
| Section 3 – Compliance and Performance Test Methods and Procedures | | |
| 9 | <p><u>EPA Reference Test Methods and Procedures</u></p> <p>The permittee shall determine compliance with the particulate emissions, VOC emissions, styrene emissions and visible emissions restrictions of this operating permit by the following EPA's reference methods under 40 CFR 60, Appendix A, as the same may be amended or revised:</p> <p>Method 1: Sample and Velocity Traverses Method 2: Determination of Stack Gas Velocity and Volumetric Flow Rate Method 3: Gas Analysis for Carbon Monoxide, Oxygen, Excess Air, and Dry Molecular Weight Method 4: Determination of Moisture Content in Stack Gases Method 5: Determination of Particulate Emissions Method 9: Visual Determination of the Opacity of Emissions Method 18: Measurement of Gaseous Organic Compound Emissions by Gas Chromatography</p> <p>Method 24: Determination of Volatile Matter Content, Water Content, Density, Volume Solids, and Weight Solids of Coatings Method 25: Determination of Total Gaseous Nonmethane Organic Emissions Method 204: Determine Capture Efficiency of Volatile Organic Compounds Appendix M of 40 CFR 51</p> | Appendix A 40 CFR 60 Appendix M 40 CFR 51 |
| Section 4 – Emission Monitoring | | |
| Not Applicable | | |
| Section 5 – Recordkeeping and Reporting Requirements | | |
| 10 | <p><u>Operation and Maintenance Manual (Work Practice Standards)</u></p> <p>The permittee shall submit to this Department for approval an Operation and Maintenance (O & M) Plan for the reinforced fiberglass plastic composite products injection molding machines, totally enclosed raw material loading stage, canister filter baghouse, particulate emissions collection system, VOC/HAP storage tanks, record keeping procedures and spill containment. The permittee shall submit to the Department a draft of the O & M Plan within 60 days of receiving this Operating Permit.</p> | 18.5 40 CFR 63, Subpart WWW, Table 4 |

| | | |
|----|---|------------------------------|
| 11 | <p><u>Daily Recordkeeping - Styrene & VOC Compliance Demonstration</u></p> <p>In order to demonstrate compliance with the styrene (HAP) and VOC emissions limitations and equipment requirements in this Title V Major Source Operating Permit, the permittee shall maintain daily records on Emissions Unit No.s 012 & 014 (Injection Molding Line No. 012 & 014) permitted herein in a format approved by the Department of the actual usage of all VOC, and HAP containing materials and VOC/HAP emissions generated by all processes that occur within the Major Source permitted herein. The normalize time period to determine enclosure performance is 8 hrs. even when batch run times may be longer. The styrene (HAP) and VOC emissions shall be estimated using the manufacturer's material formulation data, material balance of styrene (HAP) and VOC containing materials used, and the best available emission factors. The EPA approved (AP42, Section 4.4) emission factor for styrene of 1.5% (1-3%, 1.5% midrange) by weight of available styrene in the resin shall be used for low-styrene emission resins (resins with no greater than 36% styrene content). For high content styrene resins, (resins with a greater than 36% styrene content) the EPA approved (AP42, Section 4.4) emission factor for styrene of 3% shall be applied to Emissions Unit No.12 & 14 emissions estimates. These EPA emissions factors shall be used until EPA releases revised emission factors for Polyester Resin Plastic Products Fabrication or a source-emissions test is performed. The daily record shall contain the following information, as a minimum:</p> <ul style="list-style-type: none"> A. Manufacturer, product name, and product number of the resins, catalysts, monomers, fillers, pigments, additives and solvents (excluding VOC-exempt acetone) used. B. Density (lb/gal), solids content, VOC content, and individual HAP content of the resins, catalysts, monomers, fillers, pigments, additives and solvents (excluding VOC-exempt acetone) used (The preceding contents shall be expressed in percent weight.); C. The quantity in gallons or pounds of resins, catalysts, monomers, fillers, pigments, additives and solvents (excluding VOC-exempt acetone) used; D. The actual hours of operation of the each injection molding machine production line; E. The number of complete shifts (normalized to 8hrs) that the injection molding machine operated in a day (24 hours); F. The actual VOC/HAP emissions of the injection machine molding line. Determine the emission rate of VOC and styrene for the calendar day. This emissions rate determination shall be completed within each operational week; G. The quantity in gallons or pounds of waste resins, catalysts, monomers, fillers, pigments, additives and solvents (including VOC-exempt acetone) disposed of properly (example: sent to a waste solvent recovery facility or incinerated), (Certification of the VOC and HAP content of the waste shall be reported in percent weight.); H. A record of all spills or accidents involving the evaporation of resins, catalysts, monomers, fillers, pigments, additives and solvents; An estimate in pounds shall be determined of the amount of VOC/HAP evaporated to the atmosphere. (The record shall include the date and time of the spill or accident.); I. The daily records shall be kept in the units necessary to verify compliance with the permit conditions of this Operating Permit; and J. Operator and supervisor signature. | 1.5.15 18.5 CAA 112(d) |
| 12 | <p><u>Annual Production and Emissions Report</u></p> <p>The permittee shall submit by February 10th of each year to this Department an annual summary report for the previous calendar year in a format approved by this Department the following production and emissions information of the Major Source permitted herein:</p> <ul style="list-style-type: none"> A. The total quantity in gallons or pounds of resins, catalysts, monomers, fillers, pigments, additives and solvents (excluding VOC-exempt acetone) used. The usage shall be assigned to the emission unit where used; B. The density (lb/gal), Epoxy & VOC content, solids content, exempt VOC content, of all resins, catalysts, monomers, fillers, pigments, additives and solvents (including VOC-exempt acetone) used. The preceding contents shall be expressed in percent weight; | 1.5.15 18.5 |

| | | |
|----|---|--------|
| | <p>C. The quantity in gallons or pounds of waste resins, catalysts, monomers, fillers, pigments, additives and solvents (excluding VOC-exempt acetone) disposed of properly (i.e. sent to a waste solvent recovery facility or incinerated). Certification of the VOC/HAP, solids and exempt VOC content of the waste shall be reported in percent weight.</p> <p>D. The actual hours of operation of the pultrusion line;</p> <p>E. The number of shifts (8 or 12 hours) that the pultrusion line operated;</p> <p>F. The quantity in gallons and pounds per year of volatile organic compound liquids lost due to spillage or other mishaps. The type or name of the lost volatile organic compound liquids shall be reported. The date, time, and quantity of each spill or mishap;</p> <p>G. The actual emissions of all regulated air pollutants as defined in Chapter 18 of the Rules and Regulations. The emissions shall be assigned to the emissions unit where the emissions occurred;</p> <p>H. The quantity of fuels (natural gas, propane, LPG, gasoline, diesel fuel) burned within the facility;</p> <p>I. The permittee shall maintain copies of all purchase orders and invoices of resins, catalysts, monomers, fillers, pigments, additives and solvents (including VOC-exempt acetone) used for a minimum of 5 years.</p> | |
| 13 | <p><u>Notification of Violations</u></p> <p>The permittee shall submit a report to the Department within 2 working days after determining any violations of emissions or production Operating Permit condition restrictions and any Rule or Regulation.</p> | 18.5.3 |

APPENDIX A: CROSS-REFERENCE TABLE: JCDH AIR POLLUTION CONTROL RULES AND REGULATIONS TO STATE IMPLEMENTATION PLAN

The citations to Alabama regulations provided below refer to the version of the regulation that has been approved by the U.S. EPA as part of Alabama's Clean Air Act state implementation plan (SIP), as identified in 40 CFR 52, Subpart B. In the event that there is a discrepancy between the information provided in the table below and the federal regulatory table identifying the Alabama SIP at 40 CFR 52, Subpart B, the federal regulatory table governs.

| JCDH Citation | State Citation | Title/Subject |
|-------------------------------------|-------------------------------------|---|
| Chapter 1 | Chapter No. 335-3-1 | General Provisions |
| Part 1.1 | Section 335-3-1-.01 | Purpose |
| Part 1.3 | Section 335-3-1-.02 ¹ | Definitions |
| Part 1.7 | Section 335-3-1-.03 | Ambient Air Quality Standards |
| Part 1.9 | Section 335-3-1-.04 | Monitoring, Records, and Reporting |
| Part 1.10 | Section 335-3-1-.05 | Sampling and Test Methods |
| Part 1.11 | Section 335-3-1-.06 | Compliance Schedule |
| Part 1.12 | Section 335-3-1-.07 | Maintenance and Malfunctioning of Equipment; Reporting |
| Part 1.13 | Section 335-3-1-.08 | Prohibition of Air Pollution |
| Sections 3.2.1 – 3.2.4 & Part 3.4 | Section 335-3-1-.09 | Variances |
| Part 1.15 | Section 335-3-1-.10 | Circumvention |
| Part 1.16 | Section 335-3-1-.11 | Severability |
| Part 1.17 | Section 335-3-1-.12 | Bubble Provision |
| Part 1.18 | Section 335-3-1-.13 | Credible Evidence |
| Part 1.20 | Section 335-3-1-.15 | Emissions Inventory Reporting Requirements |
| Chapter 2 | Chapter No. 335-3-14 | Air Permits |
| Part 2.1 | Section 335-3-14-.01 | General Provisions |
| Part 2.2, except 2.2.4(h) | Section 335-3-14-.02 | Permit Procedures |
| Part 2.3 | Section 335-3-14-.03 | Standards for Granting Permits |
| Part 2.4 | Section 335-3-14-.04 ^{2,3} | Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration (PSD)] |
| Part 2.5 | Section 335-3-14-.05 ⁴ | Air Permits Authorizing Construction in or Near Nonattainment Areas |
| Chapter 4 | Chapter No. 335-3-2 | Air Pollution Emergency |
| Part 4.1 | Section 335-3-2-.01 | Air Pollution Emergency |
| Part 4.3 | Section 335-3-2-.02 | Episode Criteria |
| Part 4.4 | Section 335-3-2-.03 | Special Episode Criteria |
| Part 4.5 | Section 335-3-2-.04 | Emission Reduction Plans |
| Part 4.6 | Section 335-3-2-.05 | Two Contaminant Episode |
| Part 4.7 | Section 335-3-2-.06 | General Episodes |
| Part 4.8 | Section 335-3-2-.07 | Local Episodes |
| Part 4.9 | Section 335-3-2-.08 | Other Sources |
| Section 4.2.3 | Section 335-3-2-.09 | Other Authority Not Affected |
| Chapter 5 | Chapter No. 335-3-3 | Control of Open Burning and Incineration |
| Sections 5.1.1 – 5.1.5 ⁵ | Section 335-3-3-.01 | Open Burning |
| Part 5.2 | Section 335-3-3-.02 | Incinerators |

¹ Revisions of the definition of VOC to exclude *trans* 1-chloro-3,3,3-trifluoroprop-1-ene (Solstice™ 1233zs(E)), 2,3,3,3-tetrafluoropropene, and 2-amino-2-methyl-1-propanol (AMP) have not been approved into the SIP.

² Revisions to the following provisions have not been approved as SIP changes by EPA: the permitting applicability statement for greenhouse gases at ADEM 335-3-14-.04(1)(k) (JCDH 2.4.1(k)) and the definition of replacement unit at ADEM 335-3-14-.04(2)(bbb) (JCDH 2.4.2(bbb)).

³ As of Sept. 26, 2012 Section 335-3-14-.04 does not include Alabama's revision to adopt the PM_{2.5} SILs threshold and provisions (as promulgated in the October 20, 2010 PM_{2.5} PSD Increment-SILs-SMC Rule at 40 CFR 1.166(k)(2) and the term "particulate matter emissions" (as promulgated in the May 16, 2008 NSR PM_{2.5} Rule (as 40 CFR 51.166(b)(49)(vi)).

⁴ The following provisions are not part of the EPA-approved SIP: the portion of 335-3-14-.05(1)(k) (JCDH 2.5.1(k)) stating "excluding ethanol production facilities that produce ethanol by natural fermentation"; 335-3-14-.05(2)(c)3. (JCDH 2.5.2(c)(3)) which addresses fugitive emission increases and decreases; 335-3-14-.05(1)(h) (JCDH 2.5.1(h)) stating the actual-to-potential test for projects that only involve existing emissions units; the last sentence at 335-3-14-.05(3)(g) (JCDH 2.5.3(g)), stating "Interpollutant offsets shall be determined based on the following ratios"; and the NNSR interpollutant ratios at 335-3-14-.05(3)(g)1.-4. (JCDH 2.5.3(g)(1)-(4)).

⁵ See also Guidelines & Standard Operating Procedures for Issuance of Open Burning Authorizations at the end of Chapter 5. ADEM 335-3-3-.01(2)(b)(6) also prohibits open burning during declared air stagnation advisories and drought emergencies.

| JCDH Citation | State Citation | Title/Subject |
|--------------------------------------|---------------------------------------|--|
| Part 5.3 ⁶ , except 5.3.4 | Section 335-3-3-.03 | Incineration of Wood, Peanut, and Cotton Ginning Waste |
| Chapter 6 | Chapter No. 335-3-4 | Control of Particulate Emissions |
| Sections 6.1.1 & 6.1.2 | Section 335-3-4-.01 ⁷ | Visible Emissions |
| Part 6.2 | Section 335-3-4-.02 ⁸ | Fugitive Dust and Fugitive Emissions |
| Part 6.3 | Section 335-3-4-.03 | Fuel Burning Equipment |
| Part 6.4 | Section 335-3-4-.04 | Process Industries—General |
| Part 6.5 ⁹ | Section 335-3-4-.05 | Small Foundry Cupola |
| Part 6.6 ¹⁰ | Section 335-3-4-.06 | Cotton Gins |
| Part 6.7 | Section 335-3-4-.07 | Kraft Pulp Mills |
| Part 6.8 | Section 335-3-4-.08 | Wood Waste Boilers |
| Part 6.9 ¹¹ | Section 335-3-4-.09 | Coke Ovens |
| Part 6.10 | Section 335-3-4-.11 | Cement Plants |
| Part 6.12 | Section 335-3-4-.12 | Xylene Oxidation Process |
| No equivalent provision | Section 335-3-4-.14 | Grain Elevators |
| No equivalent provision | Section 335-3-4-.15 | Secondary Lead Smelters |
| Chapter 7 | Chapter No. 335-3-5 | Control of Sulfur Compound Emissions |
| Part 7.1 | Section 335-3-5-.01 | Fuel Combustions |
| Part 7.2 is not equivalent | Section 335-3-5-.02 | Sulfuric Acid Plants |
| No equivalent provision | Section 335-3-5-.03 | Petroleum Production |
| No equivalent provision | Section 335-3-5-.04 | Kraft Pulp Mills |
| No equivalent provision | Section 335-3-5-.05 | Process Industries—General |
| Chapter 8 | Chapter No. 335-3-6 | Control of Volatile Organic Compound (VOC) Emissions |
| Part 8.1 ¹² | Section 335-3-6-.24 | Applicability |
| Part 8.2 | Section 335-3-6-.25 | VOC Water Separation |
| Part 8.3 | Section 335-3-6-.26 ^{13, 14} | Loading and Storage of VOC |
| Part 8.4 | Section 335-3-6-.27 | Fixed-Roof Petroleum Liquid Storage Vessels |
| Part 8.5 | Section 335-3-6-.28 | Bulk Gasoline Plants |
| Part 8.6 | Section 335-3-6-.29 | Gasoline Terminals |
| Part 8.7, except 8.7.4(b) & 8.7.5(e) | Section 335-3-6-.30 | Gasoline Dispensing Facilities Stage 1 |
| Part 8.11 | Section 335-3-6-.32 | Surface Coating |
| Part 8.12 | Section 335-3-6-.33 ¹⁵ | Solvent Metal Cleaning |
| Part 8.13 | Section 335-3-6-.34 | Cutback and Emulsified Asphalt |
| Part 8.15 | Section 335-3-6-.36 | Compliance Schedules |
| Part 8.16 ¹⁶ | Section 335-3-6-.37 | Test Methods and Procedures |
| Part 8.18 | Section 335-3-6-.39 | Manufacture of Synthesized Pharmaceutical Products |
| Part 8.20, except 8.20.8 | Section 335-3-6-.41 | Leaks from Gasoline Tank Trucks and Vapor Collection Systems |

⁶ JCDH has no equivalent for ADEM 335-3-3-.03(5), which states "Each incinerator subject to this Rule shall be properly designed, equipped, and maintained for its maximum rated burning capacity and shall be equipped with an underfire forced air system, an over-fire air recirculation secondary construction system, and variable control damper, all of which shall be electronically controlled to insure the optimum temperature range for the complete combustion of the amount and type of material waste being charged into the incinerator. Each such incinerator shall be equipped with a temperature recorder which shall be operated continuously with the incinerator, and the temperature records shall be made available for inspection at the request of the Director."

⁷ ADEM 335-3-4-.01(1) & (2) are included in the EPA-approved SIP, however, the remaining provisions are not SIP-approved.

⁸ ADEM 335-3-4-.02(4) was removed effective July 15, 1999, however, the provision is still included in the EPA-approved SIP.

⁹ All allowable emissions rates in Table 6-3 should be construed to have 2 significant figures, consistent with ADEM 335-3-4-.05, Table 4-3.

¹⁰ All allowable emissions rates in Table 6-4 should be construed to have 1 significant figure, consistent with ADEM 335-3-4-.06, Table 4-4.

¹¹ JCDH 6.9.4 is approved to be more stringent than ADEM 335-3-4-.09(4).

¹² The definition at ADEM 335-3-6-.24(2)(d) is located at JCDH Part 1.3.

¹³ The EPA-approved SIP excludes only 11 compounds from the definition of VOC at ADEM 335-3-6-.26(1) (JCDH 8.3.1). The SIP-approved exemptions are listed in ADEM 335-3-1-.02(1)(gggg)(JCDH Part 1.3) as numbered exemptions 1-10 and 20).

¹⁴ The EPA-approved SIP requires a disposal system in conjunction with equipment required by ADEM 335-3-6-.26(2)(c)1.(i) (JCDH 8.3.2(c)(1)(i)).

¹⁵ ADEM 335-3-6-.33(5)(n) (JCDH 8.12.5(n)) is not included in the approved SIP.

¹⁶ Federally enforceable testing provisions for perchloroethylene dry cleaning systems are located at ADEM 335-3-6-.37(5) and federally enforceable testing provisions for capture efficiency are located at ADEM 335-3-6-.37(13).

| JCDH Citation | State Citation | Title/Subject |
|--------------------------------|------------------------------------|--|
| Part 8.22 | Section 335-3-6-.43 ¹⁷ | Graphic Arts |
| Part 8.23 | Section 335-3-6-.44 | Petroleum Liquid Storage in External Floating Roof Tanks |
| Part 8.24 | Section 335-3-6-.45 | Large Petroleum Dry Cleaners |
| Part 8.26 | Section 335-3-6-.47 | Leaks from Coke by-Product Recovery Plant Equipment |
| Part 8.27 | Section 335-3-6-.48 | Emissions from Coke by-Product Recovery Plant Coke Oven Gas Bleeder |
| Part 8.28 | Section 335-3-6-.49 ¹⁸ | Manufacture of Laminated Countertops |
| Part 8.29 | Section 335-3-6-.50 | Paint Manufacture |
| Part 8.23 ¹⁹ | Section 335-3-6-.53 | List of EPA Approved and Equivalent Test Methods and Procedures for the Purpose of Determining VOC Emissions |
| Chapter 9 | Chapter No. 335-3-7 | Control of Carbon Monoxide Emissions |
| Part 9.1 | Section 335-3-7-.01 | Metals Productions |
| Part 9.2 | Section 335-3-7-.02 | Petroleum Processes |
| Chapter 10 | Chapter No. 335-3-8 | Control of Nitrogen Oxides Emissions |
| Part 10.1 | Section 335-3-8-.01 | Standards for Portland Cement Kilns |
| Part 10.2 | Section 335-3-8-.02 | Nitric Acid Manufacturing |
| Part 10.3 | Section 335-3-8-.03 | NOx Emissions from Electric Utility Generating Units |
| Part 10.4 | Section 335-3-8-.04 | Standards for Stationary Reciprocating Internal Combustion Engines |
| Part 10.5 | Section 335-3-8-.05 ²⁰ | New Combustion Sources |
| Chapter 11 | Chapter No. 335-3-9 | Control of Emissions from Motor Vehicles |
| Part 11.1 | Section 335-3-9-.01 | Visible Emission Restriction for Motor Vehicles |
| Part 11.2 | Section 335-3-9-.02 | Ignition System and Engine Speed |
| Part 11.3 | Section 335-3-9-.03 | Crankcase Ventilation Systems |
| Part 11.4 | Section 335-3-9-.04 | Exhaust Emission Control Systems |
| Part 11.5 | Section 335-3-9-.05 | Evaporative Loss Control Systems |
| Part 11.6 | Section 335-3-9-.06 | Other Prohibited Acts |
| Part 11.7 | Section 335-3-9-.07 | Effective Date |
| Chapter 17 | Chapter No. 335-3-15 | Synthetic Minor Operating Permits |
| Part 17.1 | Section 335-3-15-.01 ²¹ | Definitions |
| Part 17.2, except 17.2.8(h)(7) | Section 335-3-15-.02 ²² | General Provisions |
| Part 17.3 | Section 335-3-15-.03 | Applicability |
| Part 17.4 ²³ | Section 335-3-15-.04 | Synthetic Minor Operating Permit Requirements |
| Part 17.5, except 17.5.2 | Section 335-3-15-.05 | Public Participation |
| Chapter 19 | Chapter No. 335-3-17 | Conformity of Federal Actions to State Implementation Plans |
| Part 19.1 | Section 335-3-17.01 ²⁴ | Transportation Conformity |
| Part 19.2 | Section 335-3-17-.02 | General Conformity |

¹⁷ The following provisions are not included in the EPA-approved SIP: the last 4 sentences of ADEM 335-3-6-.43(1)(c) (JCDH 8.22.(c)), provision ADEM 335-3-6-.43(1)(f) (JCDH 8.22.1(f)) and all provisions of ADEM 335-3-6-.43(5) & (6) (JCDH 8.22.5 and 8.22.6).

¹⁸ Current ADEM 335-6-.49(4) & (5) (JCDH 8.28.4 and 8.28.5) are not included in the EPA-approved SIP. The SIP-approved version of ADEM 335-6-.49(4) (JCDH 8.28.4) is "Compliance with this Rule shall be demonstrated via certification by the adhesive manufacturer as to the composition of the adhesive, if supported by actual batch formulation records. Sufficient data to determine as-applied formulation is different from the as-purchased adhesive."

¹⁹ Test Methods 204, 204A-204F are not included in the APR-approved SIP.

²⁰ ADEM 335-3-8-.05 was approved into the SIP as ADEM 335-3-8-.14 but was renumbered when CAIR provisions were removed.

²¹ Only the first sentence of ADEM 335-3-15-.01(g) is approved into the SIP. JCDH does not include the unapproved language.

²² ADEM 335-3-15-.02(10) is not included in the EPA-approved SIP. JCDH does not include the unapproved provision.

²³ JCDH Part 17.4 does not include the federally enforceable provisions of ADEM 335-3-15-.04(1)(g) and (3)(c).

²⁴ The reference to July 1, 2012 in ADEM 335-3-14-.01 and JCDH Part 19.1.1 has not been approved into the SIP.

Final Permit Glasforms

Permit Routing Checklist

| | YES | N/A |
|---------------------------------------|---------------------------------------|--------------------------|
| Cover Letter to ADEM | <input checked="" type="checkbox"/> ✓ | <input type="checkbox"/> |
| Cover Letter to Source | <input checked="" type="checkbox"/> ✓ | <input type="checkbox"/> |
| Cover Letter to EPA | <input checked="" type="checkbox"/> ✓ | <input type="checkbox"/> |
| Draft Permit | <input type="checkbox"/> | <input type="checkbox"/> |
| Final Permit | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Public Notice | <input type="checkbox"/> | <input type="checkbox"/> |
| Public Notice (uploaded to database) | <input type="checkbox"/> | <input type="checkbox"/> |
| Summary Forms – Title V Only | <input type="checkbox"/> | <input type="checkbox"/> |
| Engineering Evaluation | <input type="checkbox"/> | <input type="checkbox"/> |
| Permit Status Routing Form | <input checked="" type="checkbox"/> ✓ | <input type="checkbox"/> |
| Fee Schedule | <input checked="" type="checkbox"/> ✓ | <input type="checkbox"/> |
| Permit Application Data Entry Form | <input checked="" type="checkbox"/> ✓ | <input type="checkbox"/> |
| Invoice (Print Out From Computer) | <input checked="" type="checkbox"/> ✓ | <input type="checkbox"/> |
| PSD Nitrogen Dioxide | <input type="checkbox"/> | <input type="checkbox"/> |
| Cumulative VOC Tracking Form | <input type="checkbox"/> | <input type="checkbox"/> |
| Routed to Assigned Personnel | <input type="checkbox"/> | <input type="checkbox"/> |
| Site Visit with Assigned Personnel | <input type="checkbox"/> | <input type="checkbox"/> |
| Points Created or Changed In Database | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Inspection Record Created | <input type="checkbox"/> | <input type="checkbox"/> |
| Compliance Record Created | <input type="checkbox"/> | <input type="checkbox"/> |
| Programs Set-up | <input type="checkbox"/> | <input type="checkbox"/> |
| Replace (if Title V) on website | <input type="checkbox"/> | <input type="checkbox"/> |

Executive Summary

Beau Signed Copy

☐

Jefferson County Department of Health

Air Pollution Control Program

Permit Application Data Entry Form

(Air Database Screen 119)

Action: _____ [Q, A, M, U, D, C, N] (A- Add New App., U- Update Events, M- Modify Basic App. Info.)

Plant ID. Number: 0356 Application Control Number: 18000001

Plant Name: Glasforms, Inc. Assigned To: _____

Comment: _____

Permit App. Class: MS (MS- Major Source, SM- Synthetic Minor, MN- Minor Point Source)

Update Cat: _____ (ES- Existing Source Initial App., NS- New Source, MD- Major Modification, MN- Minor Modification, RE- Title V Renewal)

App. Received Date: 3-12-18 Subject to Title V (Y/N): _____

PERMIT APPLICATION EVENTS

| Event Code | Permit Event Description | Event Date | Performed By: (Employee's #) | Entered By: (Emp. Initial) |
|------------|---------------------------------|------------|---------------------------------|-------------------------------|
| PAR | App Received | 3-12-18 | 370 | QCH |
| PDP | JCDH Drafts Permit | 4/17/18 | | QCH |
| PDS | Public Notice of Draft Permit | 05/20/18 | 356 | QCH ✓ |
| W/A | Draft Permit Loaded on Website | 05/17/18 | 356 | QCH ✓ |
| W/A | Public Notice Loaded on Website | 05/17/18 | 356 | QCH ✓ |
| PXZ | ADEM Review | 05-16-18 | 356 | QCH ✓ |
| PZZ | LPA Review | 05-16-18 | 356 | QCH ✓ |
| PDS | Public Notice | 05-20-18 | 356 | QCH ✓ |
| PIF | Final Permit Issuance | 06-29-18 | 356 | QCH ✓ |
| | | | | |
| | | | | |

Permit Numbers, Review, and Event Codes on Back →



Issued 06/29/18

Permit Status / Routing Form

Facility Glastorms, Inc. Control # 18000001

Permit Number:

Description of Source:

Permit applied for due to

- ☐ New Construction
☒ Modification of Existing Source
☐ Startup of Existing Source
☐ Existing Facility

- ☐ Name / Ownership Change
☐ Location Change
☐ Other (Explain)

Specify Pollutants and Applicable Regulations VOC/HAP 40 CFR 63, Subpart WWWW
Self. CTT Rules & Regs Chapters 1, 6, 7, 8, 18

Special Permit Conditions Required For:

- ☐ Avoid PSD Review
☐ Avoid Offset Review
☐ Avoid Construction Moratorium
☐ Meet Requirements of PSD

- ☐ Meet Requirements of Offset
☐ NSPS Requirements
☒ NESHAPS Requirements
☐ Fug. Dust / Emissions Enforcement

Routing:

Received application MARCH 12 + April 30, 2018

Preliminary review completed MAY 15th, 2018

Final review report finished and typed

Modeling review (If applicable)

All materials / fees received April 30, 2018

Requested more information / fees from state source \$1550.00

Permit review package / Copy of applications sent to ADEM

Permit review package / Copy of applications / Public notice sent to EPA

Permit review package sent to source (Title V only)

Comments received from ADEM

Comments received from EPA

Public comment: Begins 05 20 2018 Ends 06 19 2018

Changes made to permit or review report (if applicable)

Permit sent to source

Permit data entered on CDS, on-line, NEDS, computer forms

*If the subject date is greater than 10 days from previous date, explain below.

Comments

03/14/2018 Initial: B.A. JDC
04/30/18

03/27/2018 DCH
05-16-2018 DCH
05-16-2018 DCH
05-16-2018 DCH
07/02/2018 DCH
07/19/2018 DCH
05/17/2018 DCH
07/02/2018 DCH



Jefferson County Department of Health
Environmental Health Services
Air and Radiation Division

Effective November 15, 2012

Fee Schedule for Air Permits

Company Name Poly One, Glasforms, Inc.
Facility Address 3943 Valley East Industrial Dr.
Mailing Address B'ham, AL 35217

Facility Number 000356
Control Number 18000001
Date Received 3/12/2018

| Type of Activity Associated with Permit Application | Fee per Unit | # of Units | Total |
|--|--------------|------------|------------|
| Name Change (per application) | \$445 | | |
| + \$85 per Permit | .85 | | |
| Application Submittal Fee (per application)..... | 410 | <u>1</u> | <u>410</u> |
| Non-attainment Review Submittal Fee (per application)..... | 1,340 | | |
| LAER Determination (per pollutant)..... | 525 | | |
| PSD Review (per application) | 1,340 | | |
| BACT Determination (per pollutant)..... | 525 | | |
| State Regulation Only (per permit)..... | 320 | <u>1</u> | <u>320</u> |
| NESHAPS Review (per permit)..... | 1,555 | | |
| MACT Review (per pollutant per determination) | 525 | | |
| Non-criteria Air Pollutant Review (per pollutant) | 1055 | | |
| NSPS Review (per permit) | 1,555 | | |
| Modeling Review | | | |
| Modeling Protocol Review | 1,430 | | |
| Modeling Review..... | 10,590 | | |
| Class 1 Modeling Review | 1,430 | | |
| Emission Inventory Preparation | 810 | | |
| + \$85 per point per pollutant..... | .85 | | |
| Meteorological Data..... | 605 | | |
| Permit Preparation (per permit)..... | 410 | <u>1</u> | <u>410</u> |
| Public Comment Period (per application)..... | 410 | <u>1</u> | <u>410</u> |
| Public Hearing (per application) | 4,695 | | |
| Greenfield Site Fee (per application) | 895 | | |
| Plantwide Applicability Limits (PAL) Review (per pollutant) | 6,575 | | |
| Adequacy Determination of Pre-construction Monitoring Network/Data | 4,130 | | |
| Soil Remediation Plan Review | 360 | | |
| Air Sticker (per point)..... | 100 | | |
| Asbestos Notification Review | 100 | | |
| Annual Compliance Verification-Minor Source | 110 | | |
| Annual Compliance Verification-Synthetic Minor..... | 550 | | |
| Open Burning Site Evaluation-Commercial..... | 70 | | |
| Open Burning Site Evaluation-Residential | 45 | | |

Subtotal \$ 1550

Fee Received with Applications \$ 0

Total Invoiced \$ 1550

| | |
|-----------------------|-----------------------|
| Prepared by <u>BA</u> | Reviewed by <u>JH</u> |
| Invoiced by <u>JH</u> | Approved by <u>JH</u> |

3/29/2018

Paid 03/27/2018

JEFFERSON COUNTY DEPARTMENT OF HEALTH
BUREAU OF ENVIRONMENTAL HEALTH1400 SIXTH AVENUE SOUTH
BIRMINGHAM, AL 35233

I N V O I C E

Invoice
Number: 103180049

Invoice Date: 03/28/2018

Permit Number: 18000001

NAME: PolyOne Glasforms, Inc.
ADDRESS: 3943 Valley East Industrial Dr
City: Birmingham, AL 35217
Credit Card Number: 7229

| EnterDate | TransCode | FeeCode | Description | Amount |
|----------------------|-----------|---------|-----------------|-------------|
| 3/27/2018 3:13:00 PM | 1000 | 103 | Air Permit | 1550.00 |
| 3/27/2018 3:17:00 PM | 2050 | 103 | Credit Payment | -1550.00 |
| | | | Balance: | 0.00 |

JEFFERSON COUNTY DEPARTMENT OF HEALTH
BUREAU OF ENVIRONMENTAL HEALTH

1400 SIXTH AVENUE SOUTH
BIRMINGHAM, AL 35233

I N V O I C E

Invoice
Number: 103180049

Invoice Date: 03/27/2018

Permit Number: 18000001

NAME: PolyOne Glasforms, Inc.
ADDRESS: 3943 Valley East Industrial Dr
City: Birmingham, AL 35217

| EnterDate | TransCode | FeeCode | Description | Amount |
|----------------------|-----------|---------|-----------------|----------------|
| 3/27/2018 3:13:00 PM | 1000 | 103 | Air Permit | 1550.00 |
| | | | Balance: | 1550.00 |