

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: **4-07-0356-07**
Issuance Date: **October 27, 2022**
Expiration Date: **October 26, 2027**
Nature of Business: **Manufacturing of Reinforced Fiberglass Plastic Composite Products**

Emissions Unit No.	Description of Emissions Units
002, 003, 004, 005, 019, 020, 021, 022, 023, 027, 028, & 029	Fiberglass Plastic Composite Pultrusion Lines <u>Non-RF</u> Small Pultrusion Machines
007, 008, 009, 010, 011, 015, 017 & 018	Fiberglass Plastic Composite Pultrusion Lines with a Radio Frequency Pre-Heat Unit <u>RF</u> /Large Pultrusion Lines
012 & 014	Fiberglass Plastic Composite Products Injection Molding Machines
016, 031, 040, 041, 042, 043, 044, & 045	Fiberglass Plastic Composite Pultrusion Lines Large Pultrusion Machines
046	Reciprocating Internal Combustion Engines (Emergency Generators) (7): 5 – Sportsman GEN7000LP; 1 – Generac G0071710; 1 – Winco ULP558B4W/E

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



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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.

GENERAL PERMIT CONDITIONS

No.	Federally Enforceable General Permit Conditions	Regulations
	Definitions	
1.	<p>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 51” is an acronym for Part 51 of Title 40 of the Code of Federal Regulations.</p> <p>“40 CFR 52” is an acronym for Part 52 of Title 40 of the Code of Federal Regulations.</p> <p>“40 CFR 60” is an acronym for Part 60 of Title 40 of the Code of Federal Regulations.</p> <p>“40 CFR 61” is an acronym for Part 61 of Title 40 of the Code of Federal Regulations.</p> <p>“40 CFR 63” is an acronym for Part 63 of Title 40 of the Code of Federal Regulations.</p> <p>“40 CFR 68” is an acronym for Part 68 of Title 40 of the Code of Federal Regulations.</p> <p>“40 CFR 72” is an acronym for Part 72 of Title 40 of the Code of Federal Regulations.</p> <p>“40 CFR 73” is an acronym for Part 73 of Title 40 of the Code of Federal Regulations.</p> <p>“40 CFR 75” is an acronym for Part 75 of Title 40 of the Code of Federal Regulations.</p> <p>“40 CFR 76” is an acronym for Part 76 of Title 40 of the Code of Federal Regulations.</p> <p>“40 CFR 97” is an acronym for Part 97 of Title 40 of the Code of Federal Regulations.</p> <p>“40 CFR 98” is an acronym for Part 98 of Title 40 of the Code of Federal Regulations.</p> <p>“40 CFR 1039” is an acronym for Part 1039 of Title 40 of the Code of Federal Regulations.</p> <p>“Act” means the Clean Air Act, as amended, 42 U.S.C. §7401, et seq.</p> <p>“ADEM” means the Alabama Department of Environmental Management.</p> <p>“Administrator” means the Administrator of the United States Environmental Protection Agency or the Administrator's duly authorized representative. <i>40 CFR 72, Subpart A</i></p>	<p>1.3 63.2 63.5935</p>

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	<p>“Carbon dioxide equivalent or CO₂e” means the number of metric tons of CO₂ emissions with the same global warming potential as one metric ton of another greenhouse gas, and is calculated using Equation A-1 of 40 CFR 98.</p> <p>“CO” is an acronym for carbon monoxide.</p> <p>“Department” means the Jefferson County Department of Health.</p> <p>“Emergency” means 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 actions(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 noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.</p> <p>“Emissions unit” means 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 §112(b) of the Act.</p> <p>“EPA” means the U.S. Environmental Protection Agency.</p> <p>“Fugitive emissions” means those emissions from a stationary source that could not reasonably pass through a stack, chimney, vent, or other functionally equivalent opening.</p>	
	<p>“GHG” is an acronym for greenhouse gas.</p> <p>“HAP” is an acronym for Hazardous Air Pollutant.</p> <p>“Hazardous Air Pollutant” means any of the substances listed in Appendix D of the Rules and Regulations.</p> <p>“Malfunction” means:</p> <ol style="list-style-type: none"> 1. For reporting according to Section 1.12.2 of the Rules and Regulations: any failure or breakdown of any emission source, air pollution control equipment, or related facility that occurs in such a manner as to cause the emission of air contaminants in violation of the rules and regulations. 2. For the applicable requirements of 40 CFR 63: any sudden, infrequent, and not reasonably preventable failure of air pollution control and monitoring equipment, process equipment or a process to operate in a normal or usual manner which causes, or has the potential to cause, the emission limitations in an applicable standard to be exceeded. 3. For all requirements, failures that are caused in part by poor maintenance or careless operation are not malfunctions. <p>“NAAQS” is an acronym for “National Ambient Air Quality Standards.”</p> <p>“NESHAP” is an acronym for “National Emission Standards for Hazardous Air Pollutants.”</p> <p>“NO_x” is an acronym for nitrogen oxides.</p>	

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	<p>“Permittee” means the holder of an operating permit issued by the Department.</p> <p>“PM₁₀” is an acronym for particulate matter of less than 10 microns.</p> <p>“PM_{2.5}” is an acronym for particulate matter of less than 2.5 microns.</p> <p>“PSD” is an acronym for “Prevention of Significant Deterioration” permitting under Chapter 2.4 of the Rules and Regulations.</p> <p>“RICE” is an acronym for reciprocating internal combustion engine.</p> <p>“Responsible official” means a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and the delegation of authority to such representatives is approved in advance by the Department. 40 CFR 70.2</p> <p>“Rules and Regulations” means the Jefferson County Board of Health Air Pollution Control Rules and Regulations.</p> <p>“SIP” is an acronym for “State Implementation Plan” pursuant to 40 CFR 52.</p> <p>“SO₂” is an acronym for sulfur dioxide.</p> <p>“Source” means any building, structure, facility, installation, article, machine, equipment, device, or other contrivance which 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” means any building, structure, facility or installation that emits or may emit any regulated 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>“TSP” is an acronym for total suspended particulate matter.</p> <p>“VOC” is an acronym for volatile organic compound.</p> <p>“Volatile Organic Compound” means any compound of carbon excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate, which participates in atmospheric photochemical reactions. This includes any such organic compound other than those listed under Part 1.3 of the Rules and Regulations and/or under 40 CFR §51.100(s)(1).</p> <p>“Vapor suppressant” An additive that inhibits the evaporation of volatile components in unsaturated polyester or vinyl ester resins.</p> <p>“Unsaturated polyester resin” A thermosetting resin commonly used in composites molding.</p> <p>“Unsaturated vinyl ester resin” A thermosetting resin used in composites molding for corrosion resistant and high performance applications.</p>	

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	<p>“Laminate” A combination of fiber reinforcement and a thermoset resin.</p> <p>“Chopped strand mat” Glass fiber reinforcement with random fiber orientation.</p> <p>“Initiator” A curing agent added to an unsaturated polyester or vinyl ester resin.</p> <p>“Resin application roller” A tool used to saturate and compact a wet laminate.</p> <p>“Gel time” The time from the addition of initiator to a resin to the state of resin gelation.</p> <p>“Filled resin system” A resin, which includes the addition of inert organic or inorganic materials to modify the resin properties, extend the volume and to lower the cost. Fillers include, but are not limited to; mineral particulates; microspheres; or organic particulates. This test is not intended to be used to determine the vapor suppressant effectiveness of a filler.</p> <p>“Material safety data sheet” Data supplied by the manufacturer of a chemical product, listing hazardous chemical components, safety precautions, and required personal protection equipment for a specific product.</p> <p>“Tare(ed)” Reset a balance to zero after a container or object is placed on the balance; that is to subtract the weight of a container or object from the balance reading so as to weigh only the material placed in the container or on the object.</p> <p>“Percent glass” The specified glass fiber weight content in a laminate. It is usually determined by engineering requirements for the laminate.</p> <p>Acronyms:</p> <p>VS - vapor suppressed or vapor suppressant.</p> <p>NVS - non-vapor suppressed.</p> <p>VSE - vapor suppressant effectiveness.</p> <p>VSE Factor - vapor suppressant effectiveness, factor used in the equations in Table 1 to this subpart.</p> <p>CSM - chopped strand mat.</p> <p>MSDS - material safety data sheet.</p>	
	General Conditions	
2.	<p><u>Basis for Permit</u></p> <p>This Operating Permit is issued based on provisions contained in all existing Jefferson County Board of Health Air Pollution Control Rules and Regulations (hereinafter called Rules and Regulations in this permit). 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>	AL Act 769

No.	Federally Enforceable General Permit Conditions	Regulations
3.	<p><u>Authority</u> 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>	AL Act 769
4.	<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. A Title V 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. This Title V permit supersedes all permits previously issued by the Department to this facility. The permittee shall return the expired permit(s) to the Department within 30 days after this permit is issued.</p>	18.2.4
5.	<p><u>Compliance With Existing and Future Regulations</u> A. The permittee shall comply with all applicable provisions of the Rules and Regulations. B. The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance. C. The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit, and shall follow any more detailed schedule of compliance set forth in the applicable requirement or unit specific permit requirements. D. The permittee shall be subject to any future MACT standards from the effective date as published by EPA and shall comply with the rule by the compliance date.</p>	18.5.6 18.4.8(h) 18.7.3 18.7.6
6.	<p><u>Noncompliance</u> The permittee shall comply with all terms and conditions of the permit. Noncompliance with any term or condition of a permit 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>	70.6(a)(6)(i) 18.5.6
7.	<p><u>Compliance Defense</u> 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>	18.5.7
8.	<p><u>Credible Evidence</u> Any credible evidence or information relevant to whether a source may have been in compliance with applicable requirements can be used to establish whether or a not an owner or operator has violated or is in violation of any rule or standard in the Rules and Regulations and/or any applicable provisions of 40 CFR 60.</p>	1.18 60.11(g)
9.	<p><u>Circumvention</u> No person shall cause or permit the installation or use of any device or any means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes any emission of air contaminants which would otherwise violate the Rules and Regulations.</p>	1.15 60.12 63.4(b)
10.	<p><u>Bypass Prohibited</u> Except as otherwise provided in this permit, the permittee shall not bypass, without prior approval from this Department, any air pollution control device. The permittee shall not shut down any air pollution control device unless such shutdown is accompanied by the corresponding shutdown of the respective source which the device is intended to control.</p>	18.2.4

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11.	<p><u>Shutdown of Control Equipment</u> In the case of shutdown of air pollution control equipment for scheduled maintenance, the intent shall be reported to this Department at least 24 hours prior to the planned shutdown unless the scheduled shutdown is accompanied with the shutdown of the source being controlled. The report shall contain the information listed in Section 1.12.1.</p>	1.12.1
12.	<p><u>Maintenance of Controls</u> A. The permittee shall equip each fabric filter particulate matter control device with a pressure differential measuring device to measure the pressure drop across the filter media in the control device. The device shall be installed in a location which is easily accessible for inspection by Department personnel. B. All air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in accordance with the manufacturer's specifications or alternative procedures approved by the Department so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emissions of air contaminants shall be maintained near the source and provided to the Department upon request. C. The permittee shall conduct routine inspections on all required 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 suitable for inspection.</p>	18.2.4 18.5.3(a)(2)
13.	<p><u>Nothing in this Operating Permit shall alter or affect the following:</u> A. The provisions of §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 §408(a) of the Act; or D. The ability of EPA to obtain information from a source pursuant to §114 of the Act.</p>	18.10.3
14.	<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. Also, the permittee shall submit additional information concerning any new requirements which have become applicable after a complete application has been filed but before a draft permit is released. Any change in the information already provided pursuant to 40 CFR 63 shall be provided in writing within 15 calendar days after the change.</p>	18.4.7 63.9(j)
15.	<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
16.	<p><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 Chapter 16 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 30 days of the specified date shall cause the assessment of a late fee of 3% (of the original fee) per month or fraction thereof.</p>	18.5.11 Chapter 16 16.5
17.	<p><u>Transfer</u> This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another or from one person to another except as provided in Subparagraph 18.13.1(a)(5) of the Rules and Regulations.</p>	18.2.6

No.	Federally Enforceable General Permit Conditions	Regulations
18.	<p><u>New Air Pollution Sources and Changes to Existing Units</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.</p>	1.5.15 60.7(a)(4)
19.	<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)
20.	<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>	18.4.3 18.5.2 18.12.2(b)
21.	<p><u>Revocation</u> This Operating Permit may be revoked for any of the following reasons: 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 allow entry and inspections by properly identified Department personnel; E. Failure to comply with the Rules and Regulations; or F. 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 Rules and Regulations.</p>	18.2.9
22.	<p><u>Severability</u> In case of legal challenge to any portion of this Title V Operating Permit, the remainder of the permit conditions shall continue in force.</p>	18.5.5
23.	<p><u>Reopening for Cause</u> Under any of the following circumstances, this Operating Permit will be reopened and revised prior to the expiration of the permit: 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 no 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, ADEM or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.</p>	18.13.5

No.	Federally Enforceable General Permit Conditions	Regulations
24.	<p><u>Changes or Termination for Cause – No Stay of Permit Conditions</u> This permit may be modified, revoked, reopened and reissued or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance or termination, or of a notification of a planned change or anticipated noncompliance will not stay any permit condition.</p>	18.5.8
25.	<p><u>Submission of 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. For information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.</p>	18.5.10 70.6(a)(6)(v)
26.	<p><u>Entry and Inspections</u> The permittee shall allow the Department or authorized representative, upon presentation of credentials and other documents that may be required by law, to conduct the following:</p> <ul style="list-style-type: none"> 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 (including monitoring and air pollution control 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. <p>Denial of access upon proper identification is grounds for permit revocation.</p>	1.8 18.7.2 18.2.9(d)
27.	<p><u>Flexibility Changes</u> Certain changes (per §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 written notification is sent to the Department and EPA at least 7 days before the change is made. The written notification shall describe the proposed change, the date of the change, any change in emissions, and any term or condition of the permit which is no longer valid due to the change.</p>	18.13.2
28.	<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 §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 the Rules and Regulations to be processed as a significant modification. 	18.13.3(a)(1) 18.13.3

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	<p>G. Notwithstanding Subparagraph 18.13.3(a)(1) of this regulation, minor permit modification procedures may be used for permit modifications involving the use of economic incentives, marketable permits, emissions trading, and other similar approaches, to the extent that such minor permit modification procedures are explicitly provided for in an applicable implementation plan or in applicable requirements promulgated by EPA.</p> <p>An application requesting the use of minor permit modification procedures shall meet the requirements of Section 18.4.8 of the Rules and Regulations relative to the modification and shall include the information listed at Paragraph 18.3.3(b). If the Department notifies the source that the modification does not qualify as a minor modification within 10 days after receiving the application, then the source shall apply for the change as a significant modification. Ten days after the application has been submitted to the Department, the source may make the change for which they applied unless the change does not qualify as a minor modification. After the source makes the change and until the Department takes final action on the permit application, the source must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time period, the source need not comply with the existing permit terms and conditions it seeks to modify. However, if the source fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against it. A permit shield granted under Part 18.10 shall not extend to minor permit modifications. The Department may not issue a final permit modification until after EPA's 45-day review period or until EPA has notified the Department that EPA will not object to issuance of the permit modification, whichever is first.</p>	
29.	<p><u>Significant Modifications</u></p> <p>Modifications that are significant modifications under the new source review permitting provisions of Part 2.4 (Prevention of Significant Deterioration) or Part 2.5 (Nonattainment Areas) regulations, are modifications under the NSPS or NESHAPS regulations, or otherwise do not meet the requirements for minor permit modifications from Section 18.13.3 of the Rules and Regulations must be incorporated in the Operating Permit using the requirements for sources initially applying for an Operating Permit, including those for applications, public participation, review by affected States, review by ADEM, and review by EPA, as described in Parts 18.4 and 18.15 of the Rules and Regulations.</p>	18.13.4
30.	<p><u>Off-Permit Changes</u></p> <p>Any change which is not addressed or prohibited in the federally enforceable terms and conditions of the permit may be designated by the owner or operator as an off-permit change, and may be made without revision to the federally enforceable terms and conditions of the operating permit, provided that the change:</p> <ul style="list-style-type: none"> A. Meets all applicable requirements; B. Does not violate any federally enforceable permit term or condition; C. Is not subject to any requirement or standard under title IV of the Clean Air Act; and D. Is not a modification under title I. <p>The permittee must comply with all applicable state permitting and preconstruction review requirements. Any application pertaining to a change designated by the applicant as an off-permit change shall be submitted by the applicant to EPA in fulfillment of the obligation to provide written notice, provided, that no change meeting the criteria for an insignificant activity or trivial activity is subject to the procedures set forth in this condition.</p>	18.14
31.	<p><u>Property Rights and Privileges</u></p> <p>No property rights of any sort or any exclusive privilege are conveyed through the issuance of this Operating Permit.</p>	18.5.9

No.	Federally Enforceable General Permit Conditions	Regulations
32.	<p><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.</p>	18.5.12
33.	<p><u>Emission Reduction Plan</u> 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 air pollution episodes.</p>	18.2.8(b)
34.	<p><u>Emergency Provision</u></p> <p>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 noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.</p> <p>B. Exceedances of emission limits during emergencies (as defined above) at a facility may be exempted from being violations provided that:</p> <ol style="list-style-type: none"> 1. The permittee demonstrates that the event qualifies as an emergency as defined above; 2. The permittee can identify the cause(s) of the emergency; 3. At the time of the emergency, the permitted facility was being properly operated; 4. 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; 5. 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, including 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; 6. The permittee submitted a written documentation of what was reported in the notice of the emergency to the Department within 5 working days of the emergency; and 7. 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. <p>C. The permittee has the burden of proof to assert and establish that excess emissions were attributable to an emergency in any enforcement proceeding.</p> <p>D. This provision is in addition to any emergency or upset provision contained in any applicable requirement.</p>	18.11.2 18.7.1
35.	<p><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 determination by this Department that these measures are technically and economically feasible.</p>	6.2.3

No.	Federally Enforceable General Permit Conditions	Regulations
36.	<p><u>Title IV Requirements (Acid Rain Program)</u></p> <p>Where an applicable requirement of the Rules and Regulations is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act (the acid rain program), both provisions shall be incorporated into the permit and shall be enforceable by the Department. Emissions exceeding any allowances that the permittee lawfully holds under title IV of the Act or the regulations promulgated thereunder are prohibited. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the permittee, however, allowances may not be used as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in the regulations promulgated pursuant to Title IV of the Act.</p>	<p>18.5.1(b) 18.5.4</p>
37.	<p><u>Title VI Requirements (Refrigerants)</u></p> <p>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.</p> <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 recordkeeping requirements of 40 CFR §82.166. Reports shall be submitted to the U.S. EPA and the Department as required.</p>	<p>40 CFR 82 18.1.1(e)(10) 18.1.1(w)(4)</p>
38.	<p><u>Asbestos Demolition and Renovation</u></p> <p>Demolition and renovation activities at this facility are subject to the National Emission Standard for Asbestos, 40 CFR 61, Subpart M. To determine the applicable requirements of the Standard, the permittee must thoroughly inspect the affected part of the facility 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 the commencement of the demolition or renovation operation. The permittee shall comply with all applicable sections of the Standard, including notification requirements, emission control and waste disposal procedures. The permittee shall also ensure that anyone performing asbestos-related work at the facility is trained and certified according to the Alabama Department of Environmental Management's regulations for Asbestos Contractor Certification.</p>	<p>40 CFR 61 14.2.12</p>
39.	<p><u>Prevention of Accidental Releases</u></p> <p>The permittee shall comply with the requirements of §112(r) of the Act to prevent accidental releases of any substance listed pursuant to §112(r) or any other extremely hazardous substance. If the permittee has more than a threshold quantity of a regulated substance listed under § 68.130 in a process, as determined under § 68.115, the permittee shall comply with the requirements 40 CFR 68.</p>	<p>112(r) 68.10(a)</p>

No.	Federally Enforceable General Permit Conditions	Regulations
40.	<p><u>Testing</u></p> <p>A source emissions test may be required by this Department at any time. The permittee shall provide each point of emission with sampling ports, ladders, stationary platforms, and other safety equipment to facilitate testing. The permittee shall notify the Department in writing at least 30 days prior to conducting any required emissions test on any source. This notice shall state the source to be tested, the proposed time and date(s) of the test, the purpose of the test, and the methods to be used. A site-specific test plan and quality assurance program shall be included for sources subject to NESHAP. The methods for such testing shall be in accordance with methods and procedures established by 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63 and any emissions unit specific permit requirements. Performance testing to demonstrate compliance with an NSPS or NESHAP shall include a test method performance audit as required by §60.8(g) or §63.7(c)(2)(iii)(A), respectively. The permittee shall submit the results of all emissions tests in written form to this Department within a time period specified by this Department; however, not to exceed 60 days from the test completion date.</p>	<p>1.9.1 1.10 18.2.5 18.2.8(c) 60.8(d) 60.8(e) 60.8(g) 63.7(a)(3) 63.10030(d) 63.7(b)-(d) 63.10(d)</p>
41.	<p><u>Retention of Records</u></p> <p>Records of all required monitoring data, fuel consumption, analyses, reports, safety data sheet (SDS), and other support information shall be retained for a minimum of 5 years from the date when the record was generated. Records must be readily accessible and suitable for inspection. Each record must be kept onsite for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, but may be maintained offsite for the remaining 3 years. Records may be kept in hard copy or electronically. Specific records to be made and retained are listed in the emission unit conditions.</p>	<p>18.5.3(b) 63.10033 63.10(b)(1) 72.9(f)</p>
	Facility-Specific General Conditions	
42.	<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; or 	<p>6.2.1 6.2.2 18.2.4</p>

No.	Federally Enforceable General Permit Conditions	Regulations
	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.	
43.	<p><u>General Recordkeeping Requirements</u></p> <p>The permittee shall keep records of facility-wide operations, activities and materials which have the potential to release pollutants into the atmosphere in sufficient detail to show compliance with permit conditions and to allow the annual calculation of emissions of regulated pollutants and HAP from each point and fugitive source -listed in the permit. In addition to the records required in the conditions specific to each emission unit, the permittee shall maintain records of the following:</p> <ul style="list-style-type: none"> A. All reports and notifications submitted to comply with this permit; B. Results of all required performance testing, monitoring and sampling; C. Available SDS, EDS and/or other manufacturer supplied contents information relating to the VOC and HAP contents of materials used at the facility; D. For air filtration devices listed in this permit, the date of filter replacement and the characteristics of the replacement filter materials; and E. All spills or other mishaps of VOC/HAP materials. The record shall include the date, time, and quantity (gallons 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, and F. Records of required monitoring must include (as a minimum): <ul style="list-style-type: none"> 1. The date, place as defined in the permit, and time of sampling or measurements; 2. The date(s) analyses were performed; 3. The company or entity that performed the analyses; 4. The analytical techniques or methods used; 5. The results of such analyses; and 6. The operating conditions as existing at the time of sampling or measurement. 	<p>1.9.1 18.7.1 70.6(a)(3)(C)</p>
	Reports and Notifications for Entire Facility	
44.	<p><u>Submission of Reports and Notifications</u></p> <p>The permittee shall submit all reports and notifications required by any permit condition and by any applicable NESHAP and/or NSPS to the Department. The reports may be sent by U. S. mail or by electronic mail. Reports submitted by US mail shall be postmarked on or before the due date. Reports submitted by electronic mail shall be received on or before the due date. Any document, including but not limited to applications, forms, reports or periodic compliance certifications, required to be submitted pursuant to the Title V program regulations shall contain a certification by a responsible official that meets the requirements of Section 18.4.9 of the Rules and Regulations. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete. Each report shall identify the company name and address, the beginning and ending dates of the reporting period, and the date of report completion. The records required for each emissions unit shall be used in preparing these reports and notifications. The annual compliance certification shall be submitted to the following 2 agencies:</p> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 45%;"> <p>Jefferson County Department of Health Air Pollution Control Program P.O. Box 2648 Birmingham, Alabama 35202-2648</p> </div> <div style="width: 10%; text-align: center;">and to</div> <div style="width: 45%;"> <p>EPA Region IV Atlanta Federal Center 61 Forsyth Street Atlanta, GA 30303</p> </div> </div> <p>Submissions to EPA may be (or may be required to be) submitted using CEDRI. The following reports are required to be submitted:</p>	<p>18.7.1 18.4.9 18.7.5(d)</p>

Continued on next page.

No.	Federally Enforceable General Permit Conditions	Regulations
	<p>A. Annual Emissions Calculation, due February 10 of each year. The permittee shall make calculations of the previous year's actual emissions (point and fugitive) of all regulated air pollutants, as defined in Paragraph 18.1.1(w) of the Rules and Regulations, which emanate from the facility. The calculations shall include, but may not be limited to, the following pollutants: TSP, PM₁₀, PM_{2.5}, SO₂, NO_x, CO, VOCs and HAPs. These calculations shall indicate the emissions from each emissions unit permitted, and shall include the fugitive emissions from on-site vehicular traffic and the combustion of motor fuels (diesel, gasoline and natural gas). Documentation of the basis for the calculations, including but not necessarily limited to emission factors and relevant production data, shall be included in the report. Concurrence with the calculations by the Department shall be the basis for annual emission fees in accordance with Chapter 16 of the Rules and Regulations.</p> <p>B. Annual Title V Compliance Certification certifying compliance with terms and conditions contained in the permit, including (but not limited to) emissions limitations, work practice standards and monitoring requirements, covering the period from June 25 to June 24 of the following year, shall be submitted by July 24th each calendar year. 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 and identify any periods during which compliance is required and during which an excursion or exceedance as defined under the applicable regulation occurred as possible exceptions to compliance. The compliance certification shall include the following information:</p> <ol style="list-style-type: none"> 1. The identification of each term or condition of the permit that is the basis of the certification; 2. The emissions unit or units to which the term or condition applies; 3. The compliance status; 4. Whether compliance has been continuous or intermittent; 5. The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with the permit's monitoring and recordkeeping requirements; 6. Deviations from emission limits, operating limits, work practice requirements, and monitoring requirements; and 7. Such other facts as the Department may require to determine the compliance status of the source. 	<p>1.9.2 1.5.15 18.7.1</p> <p>18.7.5</p>
	<p>C. Semi-Annual Monitoring Report shall be submitted by July 31st (covering January, February, March, April, May and June) and January 31st (covering July, August, September, October, November and December of the previous year). The report must include, as a minimum, the information and/or reports listed below:</p> <ol style="list-style-type: none"> 1. The company name and address; date of the report and beginning and end dates of the reporting period; and a statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report; date and time each deviation/malfunction started and stopped, duration, cause, and corrective actions taken; if there are no deviations/malfunctions, state there were no deviations/malfunctions during this time period. 2. If there are no deviations from any organic HAP emissions limitations (emissions limit and operating limit) that apply to you, and there are no deviations from the requirements for work practice standards in Table 4 to 40 CFR 63, Subpart WWWW, a statement that there were no deviations from the organic HAP emissions limitations or work practice standards during the reporting period.; 3. For each deviation from an organic HAP emissions limitation or operating limit and for each deviation from the requirements for work practice standards, the compliance report must contain the following information: <ol style="list-style-type: none"> a. The total operating time of each affected source during the reporting period. 	<p>18.5.3(c)(1) 63.5910 63.5912 Subpart WWW, Table 14</p>

No.	Federally Enforceable General Permit Conditions	Regulations
	<p>b. Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.</p> <p>4. Where multiple compliance options are available, state in your compliance report if you have changed compliance options since your last compliance report.</p> <p>5. For alternative operating scenarios, report each change from using styrene resins to epoxy resins, and vice versa, for each machine during the reporting period.</p> <p>D. Episodic prompt reporting of malfunctions within 24 hours and of deviations, emergencies and violations of any permit term or condition, including but not limited to emission limitations, must be submitted within 2 working days of the malfunction, deviation, emergency or discovery of a violation at any source of air pollution. Each report shall include the probable cause of the malfunction, deviation, emergency and/or violation and any corrective actions or preventive measures that were taken.</p>	<p>1.12.2 18.5.3(c)(2) 18.11.2(b)(4)</p>

NON-RF SMALL PULTRUSION MACHINES & LARGE PULTRUSION MACHINES

Emissions Unit No.	Emissions Unit Description
002, 003, 004, 005, 019, 020, 021, 022, 023, 027, 028, & 029	Non-RF Small Pultrusion Machines: 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.
016, 031, 040, 041, 042, 043, 044 & 045	Large Pultrusion Machines: 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.

Pollutant	Regulatory Emission Limits	Applicable Regulations
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

Permitted Operating Schedule:	8,760 hours/year
Type of fuel used:	
Primary:	None
Secondary:	None
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.	Non-RF Small Pultrusion Machines & Large Pultrusion Machines	Regulation
	Section 1 – Applicability	
1	<p><u>Applicability</u></p> <p>The Emissions Unit No.s 002, 003, 004, 005, 019, 020, 021, 022, 023, 027, 028, 029 (Non-RF Small Pultrusion Machines), 016, 031, 040, 041, 042, 043, 044 & 045 (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>
	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 002, 003, 004, 005, 019, 020, 021, 022, 023, 027, 028, 029 (Non-RF Small Pultrusion Machines), 016, 031, 040, 041, 042, 043, 044 & 045 (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></p> <p>The permittee shall not allow or cause Emissions Unit No.s 002, 003, 004, 005, 019, 020, 021, 022, 023, 027, 028, 029 (Non-RF Small Pultrusion Machines), 016, 031, 040, 041, 042, 043, 044 & 045 (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></p> <p>The Emissions Unit No.s 002, 003, 004, 005, 019, 020, 021, 022, 023, 027, 028, 029 (Non-RF Small Pultrusion Machines), 016, 031, 040, 041, 042, 043, 044 & 045 (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 EPA Reference Method 9 in Appendix A of 40 CFR 60. 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>

No.	Non-RF Small Pultrusion Machines & Large Pultrusion Machines	Regulation
5	<p><u>Particulate Emissions Restriction</u></p> <p>The Emissions Unit No.s 002, 003, 004, 005, 019, 020, 021, 022, 023, 027, 028, 029 (Non-RF Small Pultrusion Machines), 016, 031, 040, 041, 042, 043, 044 & 045 (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 - 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 EPA Reference Method 5 of Appendix A of 40 CFR 60.</p> $E = 3.59 P^{0.62}$ <p style="text-align: center;">Where:</p> <div style="display: flex; justify-content: space-around;"> P < 30 tons/hour P = Process Weight in Tons Per Hour </div> <div style="display: flex; justify-content: space-around;"> E = Allowable Pounds per Hour Emission Rate </div>	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>Wet Area Enclosure Requirements</u></p> <p><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, 031, 040, 041, 042, 043, 044 & 045 (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(b)
8	<p><u>Alternative Compliance Method-Wet Area Enclosure Requirements</u></p> <p><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, 031, 040, 041, 042, 043, 044 & 045 (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, 53.5830(b)(9)

No.	Non-RF Small Pultrusion Machines & Large Pultrusion Machines	Regulation
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 002, 003, 004, 005, 019, 020, 021, 022, 023, 027, 028, 029 (Non-RF Pultrusion Machines), 016, 031, 040, 041, 042, 043, 044 & 045 (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, 019, 020, 021, 022, 023, 027, 028, 029, 031, 040, 041, 042, 043, 044 & 045.</p> <ol style="list-style-type: none"> 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. 2. The permittee shall keep a contemporaneous record of all changes among alternate scenarios in an on-site log. 3. The permittee shall meet all requirement of Subpart WWW when in styrene plastic composite manufacturing. 4. The permittee shall meet all the requirements of recordkeeping and reporting within this Emissions Unit except; <ol style="list-style-type: none"> a. The permittee is not required to have a MACT control device as stipulated in Subpart WWW, or b. To maintain related records when epoxy plastic composite products are being manufactured. 	18.5.13 Section 70.6(a)(9) CAA Subpart WWW
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, 027, 028, 029 (Non-RF Small Pultrusion Machines), 016, 031, 040, 041, 042, 043, 044 & 045 (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> <ol 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. 	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, 027, 028, 029 (Non-RF Small Pultrusion Machines), 016, 031, 040, 041, 042, 043, 044 & 045 (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>	18.5.1 CAA 112(g) 40 CFR 63, Subpart WWW

No.	Non-RF Small Pultrusion Machines & Large Pultrusion Machines	Regulation
	<p>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 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). L = Length measured from the beginning of the resin bath to within 0.5 inches of the die entrance (inches). 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. B. The area that is displaced by the entering reinforcement or exiting product shall be considered open.</p>	
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, 027, 028, 029 (Non-RF Small Pultrusion Machines), 016, 031, 040, 041, 042, 043, 044 & 045 (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>	<p>2.6 18.5.1 CAA 112(g) Subpart WWW, 63.5830</p>
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, 027, 028, 029 (Non-RF Small Pultrusion Machines), 016, 031, 040, 041, 042, 043, 044 & 045 (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>	<p>2.6 18.5.1 CAA 112(g) Subpart WWW, 63.5830</p>
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, 027, 028, 029 (Non-RF Small Pultrusion Machines 016, 031, 040, 041, 042, 043, 044 & 045 (Large Pultrusion Machines) permitted herein. The wet area enclosures shall not be ventilated in any manner.</p>	<p>2.6 18.5.1 CAA 112(g) Subpart WWW, 63.5830</p>
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>	<p>18.5</p>
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:</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</p>	<p>Appendix A 40 CFR 60 Appendix M 40 CFR 51</p>

No.	Non-RF Small Pultrusion Machines & Large Pultrusion Machines	Regulation
	<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 Appendix M of 40 CFR 51</p>	
	Section 4 – Emission Monitoring	
	Daily Records according to Section 5.	
	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, 027, 028, 029 (Non-RF Small Pultrusion Machines), 016, 031, 040, 041, 042, 043, 044 & 045 (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, 031, 040, 041, 042, 043, 044 & 045 the 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>	1.5.15 18.5 CAA 112(d) 40 CFR 63, Subpart A

No.	Non-RF Small Pultrusion Machines & Large Pultrusion Machines	Regulation
	<p>A. Manufacturer, product name, and product number of the resins, catalysts, monomers, fillers, pigments, additives and solvents (exclude VOC-exempt acetone) used;</p> <p>B. 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.</p> <p>C. The quantity in gallons or pounds of resins, catalysts, monomers, fillers, pigments, additives and solvents (excluding VOC-exempt acetone) used;</p> <p>D. The actual hours of operation of the fiberglass plastic composite products pultrusion line;</p> <p>E. The number of complete shifts (normalize to 8hrs) that the pultrusion line operated in a day (24 hours);</p> <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></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 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>1.5.15</p> <p>18.5</p>

No.	Non-RF Small Pultrusion Machines & Large Pultrusion Machines	Regulation
	<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>	
21	<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

RF/LARGE PULTRUSION LINES

Emissions Unit No.	Emissions Unit Description
007, 008, 009, 010, 011, 015, 017, & 018	RF/Large Pultrusion Lines: 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.

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

Permitted Operating Schedule:	8,760 hours/year
Type of fuel used:	
Primary:	None
Secondary:	None
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.	RF/Large Pultrusion Lines	Regulation
	Section 1 – Applicability	
1	<p><u>Applicability</u> The Emissions Unit No.s 007, 008, 009, 010, 011, 015, 017, & 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>	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> The permittee shall not allow or cause Emissions Unit No.s 007, 008, 009, 010, 011, 015, 017, & 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>	18.5 40 CFR 63, Subpart WWW, 63.5830
3	<p><u>VOC Emissions Restrictions</u> The permittee shall not operate Emissions Unit No.s 007, 008, 009, 010, 011, 015, 017, & 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>	18.5 40 CFR 63, Subpart WWW, 63.5830
4	<p><u>Visible Emissions Restriction</u> The Emissions Unit No. 007, 008, 009, 010, 011, 015, 017, & 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 EPA Reference Method 9 in Appendix A of 40 CFR 60. 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>	6.1.1 18.5
5	<p><u>Particulate Emissions Restriction</u> The Emissions Unit No.s 007, 008, 009, 010, 011, 015, 017, & 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 EPA Reference Method 5 of Appendix A of 40 CFR 60.</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

No.	RF/Large Pultrusion Lines	Regulation
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, 017, & 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, 017, & 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, 017, & 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, 017, & 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: <p>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>	18.5.13 Section 70.6(a)(9) CAA Subpart WWWW

No.	RF/Large Pultrusion Lines	Regulation
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, 017, & 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>	<p>18.5.1 CAA 112(g) CAA 112(d) 40 CFR 63, Subpart WWWW 63.5830</p>
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, 017, & 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>	<p>18.5.1 40 CFR 63, Subpart WWWW, 63.5830</p>
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. 	<p>18.5.1 40 CFR 63, Subpart WWWW, 63.5830</p>
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, 017, & 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. 	<p>18.5.1 40 CFR 63, Subpart WWWW</p>

No.	RF/Large Pultrusion Lines	Regulation
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, 017, & 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>	18.5.1 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, 017, & 018 (Pultrusion Line No. 007, 008, 009, 010, 011, 015, 017, & 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, 017, & 018 (Pultrusion Line No.s 007, 008, 009, 010, 011, 015, 017, & 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, 017, & 018 (Pultrusion Line No.s 007, 008, 009, 010, 011, 015, 017, & 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:</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 	Appendix A 40 CFR 60 Appendix M 40 CFR 51

No.	RF/Large Pultrusion Lines	Regulation
	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	
	Section 4 – Emission Monitoring	
	Daily Records according to Section 5.	
	Section 5 – Recordkeeping and Reporting Requirements	
20	<u>Operation and Maintenance Manual (Work Practice Standards)</u> 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.	2.1.3 18.5 40 CFR 63, Subpart WWW, Table 4
21	<u>Daily Recordkeeping – VOC & HAP Compliance Demonstration</u> 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, 017, & 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: 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/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 fiberglass plastic composite products pultrusion line; E. The number of complete shifts (normalize to 8hrs) that the pultrusion line operated in a day (24 hours); F. 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.) 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/HAP content of the waste shall be reported in percent weight.) H. 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.) 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	1.5.15 2.1.3 18.5

No.	RF/Large Pultrusion Lines	Regulation
	<p>amount of VOC 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 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>	1.5.15 18.5
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>	2.1.3 18.5.3

INJECTION MOLDING MACHINES

Emissions Unit No.	Emissions Unit Description
012 & 014	Injection Molding Machines: 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.

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

Permitted Operating Schedule: 8,760 hours/year

Type of fuel used:

Primary:

None

Secondary:

None

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.	Injection Molding Machines	Regulation
	Section 1 – Applicability	
1	<p><u>Applicability</u> 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> 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> 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> 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 EPA Reference Method 9 in Appendix A of 40 CFR 60. 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
5	<p><u>Particulate Emissions Restriction</u> 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 EPA Reference Method 5 of Appendix A of 40 CFR 60.</p>	6.4.1 18.5

No.	Injection Molding Machines	Regulation
	$E = 3.59 P^{0.62}$ Where: $P < 30$ tons/hour $P =$ Process Weight in Tons Per Hour $E =$ Allowable Pounds per Hour Emission Rate	
6	<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.	18.5
7	<u>HAP/VOC Restriction</u> 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.	18.5
8	<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 allows the materials to evaporate to the atmosphere. Records of the method of disposal shall be maintained.	18.5
Section 3 – Compliance and Performance Test Methods and Procedures		
9	<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: 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	Appendix A, 40 CFR 60 Appendix M, 40 CFR 51
Section 4 – Emission Monitoring		
Daily Records according to Section 5.		
Section 5 – Recordkeeping and Reporting Requirements		
10	<u>Operation and Maintenance Manual (Work Practice Standards)</u> 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.	18.5 40 CFR 63, Subpart WWW, Table 4
11	<u>Daily Recordkeeping - Styrene & VOC Compliance Demonstration</u> 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	1.5.15 18.5 CAA 112(d)

No.	Injection Molding Machines	Regulation
	<p>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. 	
12	<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 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; 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. D. The actual hours of operation of the pultrusion line; E. The number of shifts (8 or 12 hours) that the pultrusion line operated; 	1.5.15 18.5

No.	Injection Molding Machines	Regulation
	<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

EMERGENCY GENERATORS

Emissions Unit No.	Emissions Unit Description
046	Reciprocating Internal Combustion Engines (Emergency Generators) 5 – Sportsman GEN7000LP; 1 – Generac G0071710; 1 – Winco ULP558B4W/E

No.	Federally Enforceable Conditions for Emergency Generators	Regulations																																
1.	<p><u>Applicability</u></p> <p>The generators are subject to 40 CFR 63 (NESHAP) as listed in the table below. These generators are available to use during emergencies and for limited non-emergency use as allowed by the applicable subparts.</p> <table><tr><th>Generator Serves</th><th>Fuel</th><th>Capacity (bhp)</th><th>Subject to:</th></tr><tr><td>Buildings 1 and 2</td><td>LPG</td><td>13</td><td>40 CFR 63, Subpart ZZZZ</td></tr><tr><td>Buildings 3</td><td>LPG</td><td>13</td><td>40 CFR 63, Subpart ZZZZ</td></tr><tr><td>Buildings 4</td><td>LPG</td><td>13</td><td>40 CFR 63, Subpart ZZZZ</td></tr><tr><td>Buildings 5</td><td>LPG</td><td>13</td><td>40 CFR 63, Subpart ZZZZ</td></tr><tr><td>Buildings 6</td><td>LPG</td><td>13</td><td>40 CFR 63, Subpart ZZZZ</td></tr><tr><td>Buildings 1 Freezer</td><td>Natural Gas</td><td>13.41</td><td>40 CFR 63, Subpart ZZZZ</td></tr><tr><td>Buildings 5 Freezer</td><td>Natural Gas</td><td>10.73</td><td>40 CFR 63, Subpart ZZZZ</td></tr></table>	Generator Serves	Fuel	Capacity (bhp)	Subject to:	Buildings 1 and 2	LPG	13	40 CFR 63, Subpart ZZZZ	Buildings 3	LPG	13	40 CFR 63, Subpart ZZZZ	Buildings 4	LPG	13	40 CFR 63, Subpart ZZZZ	Buildings 5	LPG	13	40 CFR 63, Subpart ZZZZ	Buildings 6	LPG	13	40 CFR 63, Subpart ZZZZ	Buildings 1 Freezer	Natural Gas	13.41	40 CFR 63, Subpart ZZZZ	Buildings 5 Freezer	Natural Gas	10.73	40 CFR 63, Subpart ZZZZ	63.6585 60.4200(a)(2)(ii)
Generator Serves	Fuel	Capacity (bhp)	Subject to:																															
Buildings 1 and 2	LPG	13	40 CFR 63, Subpart ZZZZ																															
Buildings 3	LPG	13	40 CFR 63, Subpart ZZZZ																															
Buildings 4	LPG	13	40 CFR 63, Subpart ZZZZ																															
Buildings 5	LPG	13	40 CFR 63, Subpart ZZZZ																															
Buildings 6	LPG	13	40 CFR 63, Subpart ZZZZ																															
Buildings 1 Freezer	Natural Gas	13.41	40 CFR 63, Subpart ZZZZ																															
Buildings 5 Freezer	Natural Gas	10.73	40 CFR 63, Subpart ZZZZ																															
2.	<p><u>Visible Emissions</u></p> <p>The permittee shall not discharge into the atmosphere from any source of emission any air contaminant with an opacity greater than 20%, as determined by a 6-minute average using EPA Method 9 of 40 CFR 60, Appendix A, except that during (1) 6-minute period in any 60-minute period, particulate emissions from a source of emission may reach but not exceed 40% opacity. If the period of operation of an engine exceeds the time needed to startup the engine and achieve safe loading and normal operation (a maximum of 30 minutes), the exhaust shall be visually observed for the presence of visible emissions. It is not necessary to quantify the opacity of the visible emissions during normal operation if the cause of any amount of visible emissions is promptly investigated and corrected. The effectiveness of corrective actions shall be demonstrated by follow-up a visual observation at the completion of repairs and not later than the next operation of the engine. If visible emissions are not corrected, a certified observer shall complete a Visible Emissions Evaluation consistent with EPA Method 9 of 40 CFR 60, Appendix A, within 3 working days to establish compliance with Section 6.1.</p>	6.1.1 18.5.3																																
3.	<p><u>Fuel Restrictions</u></p> <p>The permittee shall combust only only natural gas or LPG in spark ignition (SI) engines. Compliance with this provision will serve as compliance with the applicable requirements for emissions of particulate matter and sulfur dioxide from fuel combustion at Part 6.3 and Section 7.1.1 of the Rules and Regulations, respectively.</p>	18.2.4 6.3 7.1.1																																
4.	<p><u>Non-Resettable Hour Meter</u></p> <p>For each emergency engine, the permittee shall install a non-resettable hour meter, and, for each instance of engine operation, the permittee shall record the time (duration) of engine operation and the reason the engine was in operation at that time.</p>	63.6625(f) 63.6655(f) 60.4209(a) 60.4214(b)																																

No.	Federally Enforceable Conditions for Emergency Generators	Regulations
5.	<p><u>Restrictions on Non-Emergency Use</u> Emergency engines are subject to the following operating restrictions:</p> <ul style="list-style-type: none"> A. Operation in emergency situations as specified in §63.6640(f)(1) or §60.4211(f)(1), as applicable; B. Maintenance checks and readiness testing for a limited number of hours per year as specified in §63.6640(f)(2)(i) or §60.4211(f)(2)(i), as applicable; and C. Certain non-emergency situations for a limited number of hours per year as specified in §63.6640(f)(4) or §60.4211(f)(3), as applicable. <p>Any engine that does not comply with the non-emergency use restrictions shall comply with the requirements for non-emergency engines under the applicable subpart(s).</p>	<p>63.6675 63.6640(f) 60.4219 60.4211(f)</p>
6.	<p><u>Alternative Operating Scenario</u> If any engine is required to meet the requirements for non-emergency engines, the permittee shall notify the Department within 15 calendar days and shall comply with the provisions for non-emergency engines under the NSPS and/or NESHAP to which the engine is subject (refer to Condition 1 above), notwithstanding other provisions of this permit to the contrary.</p>	<p>18.5.13</p>
7.	<p><u>Additional Requirements for 40 CFR 63, Subpart ZZZZ</u> Glasforms is an area source of HAP. Each generator subject only to Subpart ZZZZ was constructed prior to June 12, 2006. The additional applicable requirements for these existing affected sources are as follows:</p> <ul style="list-style-type: none"> A. Minimize the engine's time spent at idle and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes; B. Operate and maintain each affected source in a manner consistent with safety and good air pollution control practices for minimizing emissions at all times; C. Operate and maintain each engine according to the manufacturer's emission-related operation and maintenance instructions or develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions; D. Perform the following management practices: <ul style="list-style-type: none"> 1. Change the oil and filter every 500 hours of operation or annually, whichever comes first, or utilize an oil analysis program as allowed by §63.6625(i); 2. Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and 3. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. <p>If the emergency engine is operated as part of a financial arrangement with another entity as allowed by §63.6640(f)(4)(ii), the permittee is required to submit an annual report according to the requirements of §60.6650(h)(1)-(3).</p>	<p>63.6590(a)(1)(ii) 63.6603(a)</p> <p>Subpart ZZZZ, Table 2d 63.6625(h) 63.6605(b)</p> <p>Subpart ZZZZ, Table 6 63.6625(e)</p> <p>Subpart ZZZZ, Table 2d</p> <p>63.6604(b) 63.6650(h) Subpart ZZZZ, Table 7</p>

No.	Federally Enforceable Conditions for Emergency Generators	Regulations
8.	<p><u>Recordkeeping for RICE</u></p> <p>The permittee shall maintain the following records:</p> <ul style="list-style-type: none"> A. The sulfur content of diesel fuel combusted; B. Hours of operation for each engine; C. Records of the purpose of each operation of each engine to demonstrate compliance with the restrictions on use other than for emergency operation; D. Records to demonstrate that the applicable maintenance and management practices are met for each engine; E. Records of deviations, defined as any instance when the permittee fails to meet the emission or operating limitation or an applicable requirement of 40 CFR 63, Subpart A or 40 CFR 60, Subpart A; F. Time, date, name of person performing each inspection; G. Time, date, name of observer for visible emissions observations; H. Time, date and name of person(s) performing maintenance, corrective actions and repairs; and <p>Time, date and duration of malfunctions, including whether the equipment the control device is intended to control was operating and any corrective actions taken.</p>	<p>1.9.1 18.5.3 63.6640(b) 63.6655(e)</p>

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 No. 335-1-1	Organization
No equivalent provision	Section 335-1-1-.03 ¹	Organization and Duties of the Commission
No equivalent provision	Section 335-1-1-.04	Organization of the Department
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	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 ²	Permit Procedures
Part 2.3	Section 335-3-14-.03	Standards for Granting Permits
Part 2.4	Section 335-3-14-.04 ^{3,4,5}	Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration (PSD)]
Part 2.5	Section 335-3-14-.05 ⁶	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

¹ ADEM amendments effective on December 7, 2018 have not been approved in the SIP by EPA.

² ADEM amendments effective on September 7, 2000 and July 11, 2006 have not been approved in the SIP by EPA.

³ Exceptions to approval as of July 3, 2019: Except for changes to 335-3-14-.04(2)(w)1., state effective July 11, 2006, which lists a 100 ton per year significant net emissions increase for regulated NSR pollutants not otherwise specified at 335-3-14-.04(2)(w).

⁴ Exceptions to approval as of July 3, 2019: Except for the significant impact levels at 335-3-14-.04(10)(b) which were withdrawn from EPA consideration on October 9, 2014.

⁵ Exceptions to approval as of July 3, 2019: Except for the second sentence of paragraph 335-3-14-.04(2)(bbb)2., as well as the second and fourth sentences of paragraph 335-3-14-.04(2)(bbb)3., which include changes from the vacated federal ERP rule and were withdrawn from EPA consideration by the State on May 5, 2017.

⁶ Exceptions to approval as of December 14, 2018: With the exception of: The portion of 335-3-14-.05(1)(k) stating "excluding ethanol production facilities that produce ethanol by natural fermentation"; and 335-3-14-.05(2)(c)3 (addressing fugitive emission increases and decreases). Also with the exception of the state-withdrawn elements: 335-3-14-.05(1)(h) (the actual-to-potential test for projects that only involve existing emissions units); the last sentence at 335-3-14-.05(3)(g), stating "Interpollutant offsets shall be determined based upon the following ratios"; and the NNSR interpollutant ratios at 335-3-14-.05(3)(g)1-4.

JCDH Citation	State Citation	Title/Subject
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 ⁷	Section 335-3-3-.01	Open Burning
Part 5.2	Section 335-3-3-.02 ⁸	Incinerators
Part 5.3 ⁹ , 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
Part 6.1 ¹⁰	Section 335-3-4-.01	Visible Emissions
Part 6.2	Section 335-3-4-.02 ¹¹	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 ¹²	Section 335-3-4-.05	Small Foundry Cupola
Part 6.6 ¹³	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	Section 335-3-4-.09	Coke Ovens
No equivalent provision	Section 335-3-4-.10	Primary Aluminum Plants
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-.13 ¹⁴	Sintering Plants
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
Parts 7.6 through 7.36	Sections 335-3-5-.06 through 335-3-5-.36	TR SO ₂ Trading Program
Chapter 8	Chapter No. 335-3-6	Control of Organic Emissions
Part 8.1 ¹⁵	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 ¹⁶	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

⁷ 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.

⁸ Amendments to 335-3-3-.02 effective September 19, 1991 have not been approved into the SIP by EPA.

⁹ 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.”

¹⁰ ADEM has no equivalent to Section 6.1.8.

¹¹ ADEM 335-3-4-.02(4) was removed effective July 15, 1999, however, the provision is still included in the EPA-approved SIP.

¹² 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.

¹³ 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.

¹⁴ ADEM has removed and reserved this section, however it remains listed in the EPA approved SIP. See 40 CFR 52.50(c).

¹⁵ The definition of “low-use coating” at ADEM 335-3-6-.24(2)(d) is located at JCDH Part 1.3.

¹⁶ Amendments to 335-3-6-.26 effective September 21, 1989 and July 31, 1991 have not been approved into the SIP by EPA. 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)).

JCDH Citation	State Citation	Title/Subject
No equivalent provision	Section 335-3-6-.31 ¹⁷	Petroleum Refinery Sources
Part 8.11	Section 335-3-6-.32	Surface Coating
Part 8.12	Section 335-3-6-.33	Solvent Metal Cleaning
Part 8.13	Section 335-3-6-.34	Cutback and Emulsified Asphalt
No equivalent provision	Section 335-3-6-.35 ¹⁸	Petition for Alternative Controls
Part 8.15	Section 335-3-6-.36	Compliance Schedules
Part 8.16 ¹⁹	Section 335-3-6-.37	Test Methods and Procedures
No equivalent provision	Section 335-3-6-.38 ²⁰	Manufacture of Pneumatic Tires
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
No equivalent provision	Section 335-3-6-.42 ²¹	Leaks from Petroleum Refinery Equipment
Part 8.22	Section 335-3-6-.43	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
No equivalent provision	Section 335-3-6-.46 ²²	Aerospace Assembly and Component and Component Coatings Operation
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	Manufacture of Laminated Countertops
Part 8.29	Section 335-3-6-.50	Paint Manufacture
Part 8.23 ²³	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	NO _x 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	New Combustion Sources
Parts 10.7 through 10.38	Sections 335-3-8-.07 through 335-3-8-.38	TR NO _x Annual Trading Program
Parts 10.39 through 10.70	Sections 335-3-8-.39 through 335-3-8-.70	TR NO _x Ozone Season Trading Program
No equivalent provision	Section 335-3-8-.71	NO _x Budget Program
No equivalent provision	Section 335-3-8-.72	NO _x Budget Program Monitoring and Reporting
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

¹⁷ ADEM has removed and reserved this section, however it remains listed in the EPA approved SIP. See 40 CFR 52.50(c).

¹⁸ Amendments to 335-3-6-.35 effective July 31, 1991 have not been approved into the SIP by EPA.

¹⁹ 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 for VOC capture and control systems are located at ADEM 335-3-6-.37(13). JCDH 8.16.5 is reserved, and JCDH 8.16.13 is very brief.

²⁰ ADEM has removed and reserved this section, however it remains listed in the EPA approved SIP. See 40 CFR 52.50(c).

²¹ ADEM has removed and reserved this section, however it remains listed in the EPA approved SIP. See 40 CFR 52.50(c).

²² ADEM has removed and reserved this section, however it remains listed in the EPA approved SIP. See 40 CFR 52.50(c).

²³ Test Methods 204, 204A-204F are not included in the EPA-approved SIP.

JCDH Citation	State Citation	Title/Subject
Part 11.6	Section 335-3-9-.06	Other Prohibited Acts
Part 11.7	Section 335-3-9-.07	Effective Date
No equivalent provision	Chapter No. 335-3-12²⁴	Continuous Monitoring Requirements for Existing Sources
No equivalent provision	Chapter No. 335-3-13	Control of Fluoride Emissions
Chapter 17	Chapter No. 335-3-15	Synthetic Minor Operating Permits
Part 17.1	Section 335-3-15-.01 ²⁵	Definitions
Part 17.2, except 17.2.8(h)(7)	Section 335-3-15-.02	General Provisions
Part 17.3	Section 335-3-15-.03	Applicability
Part 17.4 ²⁶	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	Transportation Conformity
Part 19.2	Section 335-3-17-.02	General Conformity

²⁴ Amendments to 335-3-12-.02 effective September 7, 2000 have not been approved into the SIP by EPA.

²⁵ Amendments to 335-3-15-.01 effective January 16, 1997 have not been approved into the SIP by EPA. Only the first sentence of ADEM 335-3-15-.01(g) is approved into the SIP. JCDH does not include the unapproved language.

²⁶ The federally enforceable provisions of ADEM 335-3-15-.04(3)(c) are located at JCDH 2.1.7(a).



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

October 27, 2022

Mr. Tyler Haynes
Plant Manager
Glasforms, Inc.
3943 Valley East Industrial Drive
Birmingham, AL 35217

Dear Mr. Haynes,

Enclosed please find a Title V Permit for Glasforms, Inc., located at 43943 Valley East Industrial Drive in Birmingham, AL 35217.

Permit No.

4-07-0356-07

Nature of Business:

Manufacturing of Reinforced Fiberglass Plastic
Composite Products

If you have any questions or comments, please advise.

Sincerely,

Jonathan Stanton, Director
Environmental Health Services

JS/kp

Enclosures

Title V Permit



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

October 27, 2022

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

Dear Mr. Gore,

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Permit No.

4-07-0356-07

Nature of Business:

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If you have any questions or comments, please advise.

Sincerely,

Jonathan Stanton, Director
Environmental Health Services

JS/kp

Enclosures

Title V Permit