



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center
122 S. Front Street
Columbus, OH 43215

TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049
Columbus, OH 43216-1049

01/31/01

CERTIFIED MAIL

RE: Proposed Title V Chapter 3745-77 permit

02-04-01-0230

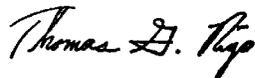
Molded Fiber Glass Companies, Plant 2

Attn: Genevieve Damico AR-18J
United States Environmental Protection Agency
Region V
77 West Jackson Blvd.
Chicago, IL 60604-3590

Dear Ms. Damico:

The proposed issuance of the Title V permit for Molded Fiber Glass Companies, Plant 2, has been created in Ohio EPA's State Air Resources System (STARS) on 01/31/01, for review by USEPA. This proposed action is identified in STARS as  3-Title V Proposed Permit T+C covering the facility specific terms and conditions, and  Title V Proposed Permit covering the general terms and conditions. This proposed permit will be processed for issuance as a final action after forty-five (45) days from USEPA's receipt of this certified letter if USEPA does not object to the proposed permit. Please contact Mike Ahern, DAPC Permit Management Unit supervisor at (614) 644-3631 by the end of the forty-five (45) day review period if you wish to object to the proposed permit.

Very truly yours,



Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

cc: Northeast District Office
Becky Castle, DAPC PMU

Ohio EPA

State of Ohio Environmental Protection Agency

TITLE V PERMIT

Date: 01/31/01

PROPOSED

Effective Date:

Expiration Date:

This document constitutes issuance to:

Molded Fiber Glass Companies, Plant 2
2925 MFG Place
Box 675
Ashtabula, OH 44004

of a Title V permit for Facility ID: 02-04-01-0230

Emissions Unit ID (Company ID)/

Emissions Unit Activity Description:

F001 (Plant Roadways & Parking)

Paved and Unpaved Roadways and Parking Lots

P004 (Prime Oven Front Line)

Prime Coating Bake Oven

P005 (Top Coat Oven Front Line)

Topcoat Bake Oven

P006 (Molding Press # 225)

2000 Ton Molding Press

P007 (SMC Machine)

Sheet Molding Compound Machine

P008 (Molding Press # 230)

200 Ton Molding Press

P009 (180" Preform Machine and Oven)

180" Preform Machine and Oven

P010 (Prime Oven Back Line)

Prime Coating Bake Oven

P011 (Topcoat Oven Back Line)

Topcoat Bake Oven

P012 (Molding Press #227)

1500 Ton Molding Press

P013 (Molding Press #224)
1500 Ton Molding Press

P014 (Molding Press #222)
1500 Ton Molding Press

P015 (Molding Press #221)
1500 Ton Molding Press

P016 (Molding Press #202)
880 Ton Molding Press

P017 (Molding Press #201)
565 Ton Molding Press

P018 (Molding Press #203)
565 Ton Molding Press

P019 (Molding Press #206)
450 Ton Molding Press

P020 (Molding Press #207)
450 Ton Molding Press

P021 (Molding Press #208)
450 Ton Molding Press

P022 (Molding Press #204)
220 Ton Molding Press

P023 (Molding Press #205)
220 Ton Molding Press

P024 (Molding Press #219)
227 Ton Molding Press

P025 (Molding Press #220)
75 Ton Molding Press

P026 (Mixer #1)
Mixer

P027 (120" Preform Machine and Oven)
120" Preform Machine and Oven

P028 (Mixer #2)
Mixer

P029 (Mixer #3)
Mixer

P030 (Molding Press #226)
1500 Ton Molding Press

P031 (Molding Press #228)
2850 Ton Molding Press

P032 (Molding Press #231
)
1500 Ton Molding Press

P033 (Molding Press #229)
2850 Ton Molding Press

R003 (Prime Booth Front Line)
Prime Coating Spray Booth

R004 (Top Coat Booth Front Line)
Topcoat Spray Booth

R005 (Prime Booth Back Line)
Prime Booth New Line

R006 (Top Coat Booth Back Line)
Top Coat Booth New Line

You will be contacted approximately eighteen (18) months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency listed below. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-04(A) and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

Described below is the current Ohio EPA District Office or local air agency that is responsible for processing and administering your Title V permit:

Northeast District Office
2110 East Aurora Road
Twinsburg, OH 44087
(330) 425-9171

OHIO ENVIRONMENTAL PROTECTION AGENCY

Christopher Jones
Director

PART I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Section

1. Monitoring and Related Recordkeeping and Reporting Requirements

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - i. The date, place (as defined in the permit), and time of sampling or measurements.
 - ii. The date(s) analyses were performed.
 - iii. The company or entity that performed the analyses.
 - iv. The analytical techniques or methods used.
 - v. The results of such analyses.
 - vi. The operating conditions existing at the time of sampling or measurement.
- b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - i. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
 - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. These quarterly written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the submission of monitoring reports every six months and OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations except malfunctions, which shall be reported in accordance with OAC rule 3745-15-06. The written reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.) See B.8 below if no deviations occurred during the quarter.
 - iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. These semi-annual written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the reporting of any deviations related to the monitoring, recordkeeping, and reporting requirements. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.

- iv. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

2. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports submitted pursuant to OAC rule 3745-15-06 shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of deviations caused by malfunctions or upsets.

Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

3. Risk Management Plans

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

4. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

5. Severability Clause

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

6. General Requirements

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.
- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.

- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

7. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78.

8. Marketable Permit Programs

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

9. Reasonably Anticipated Operating Scenarios

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these general terms and conditions shall apply to all operating scenarios authorized in this permit.

10. Reopening for Cause

This Title V permit will be reopened prior to its expiration date under the following conditions:

- a. Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.
- b. This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.
- c. The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.

- d. The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

11. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

12. Compliance Requirements

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.
 - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
 - i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.
- d. Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the appropriate Ohio EPA District Office or local air agency in the following manner and with the following content:
 - i. Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.
 - ii. Compliance certifications shall include the following:
 - (a) An identification of each term or condition of this permit that is the basis of the certification.
 - (b) The permittee's current compliance status.

- (c) Whether compliance was continuous or intermittent.
 - (d) The method(s) used for determining the compliance status of the source currently and over the required reporting period.
 - (e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.
- iii. Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

13. Permit Shield

- a. Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.
- b. This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

14. Operational Flexibility

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

15. Emergencies

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.

16. Off Permit Changes

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

- a. The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition;
- b. The permittee provides contemporaneous written notice of the change to the director and the administrator, except that no such notice shall be required for changes that qualify as insignificant emission levels or

activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change;

- c. The change shall not qualify for the permit shield under OAC rule 3745-77-07(F);
- d. The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes; and
- e. The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit to install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

(For further clarification, the permittee can refer to Engineering Guide #63 that is available in their STARSHIP software package.)

17. Compliance Method Requirements

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 Fed. Reg. 8314, Feb. 24, 1997), in the context of any future proceeding.

18. Insignificant Activity

Each insignificant activity that has one or more applicable requirements shall comply with those applicable requirements.

B. State Only Enforceable Section

1. Permit to Install Requirement

Prior to the “installation” or “modification” of any “air contaminant source,” as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

Part II - Specific Facility Terms and Conditions

A. State and Federally Enforcable Section

None

B. State Only Enforceable Section

1. The following insignificant emissions units are located at this facility:

B002 - 5.23 million Btu/hr. gas-fired boiler
B003 - 9.656 million Btu/hr. gas-fired boiler
F001 - Plant Roadways and Parking Areas
N001 - Paint Line Pyrolysis Oven
Z003 - Finishing Operations: Sanding & Grinding
Z007 - Paint line sanding operations
Z008 - storage tank #1 for polyester resin/styrene
Z009 - storage tank #2 for polyester resin/styrene
Z010 - storage tank #3 for polyester resin/styrene
Z011 - storage tank #4 for polyester resin/styrene
Z012 - storage tank #5 for polyester resin/styrene
Z013 - storage tank #6 for polyester resin/styrene
Z014 - storage tank #7 for polyester resin/styrene
Z015 - storage tank #8 for polyester resin/styrene
Z016 - storage tank for diesel
Z017 - storage tank for methyl amyl ketone
Z018 - solvent cleaning tank #3
Z019 - preform mix room
Z020 - parts cleaner #1
Z021 - solvent cleaning tank #1
Z025 - styrene storage tank
Z026 - solvent cleaning tank #2
Z027 - parts cleaner #2

Each insignificant emissions unit at this facility must comply with all State and federal regulations, as well as any emissions limitations and/or control requirements contained within a Permit to Install for the emissions unit.

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Plant Roadways & Parking (F001)
Activity Description: Paved and Unpaved Roadways and Parking Lots

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Paved roadways and parking areas	OAC rule 3745-17-07(B)(4)	There shall be no visible particulate emissions except for a period of time not to exceed 6 minutes during any 60-minute period.
	OAC rule 3745-17-08(B), (B)(8),(B)(9)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust shall be employed (see Sections A.I.2.a., A.I.2.c., A.I.2.e., A.I.2.f. and A.I.2.g.).
unpaved roadways and parking areas	OAC rule 3745-17-07(B)(5)	There shall be no visible particulate emissions except for a period of time not to exceed 13 minutes during any 60-minute period.
	OAC rule 3745-17-08(B), (B)(2)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust shall be employed (see Sections A.I.2.b. through A.I.2.g.).

2. Additional Terms and Conditions

- 2.a The permittee shall employ reasonably available control measures on all paved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the paved roadways and parking areas by watering at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.b The permittee shall employ reasonably available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved roadways with water at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

2. Additional Terms and Conditions (continued)

- 2.c** The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a paved or unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- 2.d** Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled with the control measure(s) specified above for paved surfaces. Any unpaved roadway that takes the characteristics of a paved roadway due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas.
- 2.e** The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- 2.f** Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- 2.g** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08.

II. Operational Restrictions

- 1. The use of used oil as a dust suppressant is prohibited per OAC rule 3745-279-82.
- 2. The permittee shall certify or possess certification that all waste material used to control fugitive dust meets the PCB limitations set forth in 40 CFR 761, and that there are no listed hazardous wastes or characteristic hazardous wastes as set forth in 40 CFR 261.

III. Monitoring and/or Record Keeping Requirements

- 1. Except as otherwise provided in this section, the permittee shall perform inspections of the roadways and parking areas in accordance with the following frequencies:

roadway/parking area surface type	minimum inspection frequency
paved	daily
unpaved	daily
- 2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
- 3. The permittee may, upon receipt of written approval from the Ohio EPA Northeast District Office, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.

III. Monitoring and/or Record Keeping Requirements (continued)

4. The permittee shall maintain records of the following information:
 - a. the road surface type;
 - b. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - c. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - d. the dates the control measures were implemented; and
 - e. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in section A.III.4.e. shall be kept separately for (i) the paved roadways and paved parking areas and (ii) the unpaved roadways, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

V. Testing Requirements

1. Compliance with the emissions limitation(s) in Section A.I.1. of these terms and conditions shall be determined in accordance with the following methods(s):
 - 1.a Emission Limitation: No visible particulate emissions except for six minutes during any 60-minute period from the paved roadways and parking areas.

Applicable Compliance Method: Compliance with the visible emission limitations for the paved roadways and parking areas identified above shall be determined in accordance with Test Method 22 as set forth in Appendix A on Test Methods in 40 CFR, Part 60 (Standards of Performance for New Stationary Sources), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.
 - 1.b Emission Limitation: No visible particulate emissions except for thirteen minutes during any 60-minute period from the unpaved roadways and parking areas.

Applicable Compliance Method: Compliance with the visible emission limitations for the paved roadways and parking areas identified above shall be determined in accordance with Test Method 22 as set forth in Appendix A on Test Methods in 40 CFR, Part 60 (Standards of Performance for New Stationary Sources), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Prime Oven Front Line (P004)
Activity Description: Prime Coating Bake Oven

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Prime coating bake oven on front line for coated plastic parts	OAC rule 3745-21-07(G)(1)	Organic compound (OC) emissions shall not exceed 3 lbs/hr and 15 lbs/day.
	OAC rule 3745-31-05(A)(3) PTI 02-9123	OC emissions shall not exceed 2.74 tons/year.

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. For purposes of calculating the OC emission rates for this emissions unit and the associated spray booth (R003), the permittee shall utilize a value of 97% as the maximum percentage of the OCs employed in the spray booth that are emitted uncontrolled from the coating operations at the spray booth. The remaining 3% of the OCs employed in the spray booth, from the coating operations, shall be considered to be the uncontrolled emissions for this emissions unit. This "split" of OC emissions between this emissions unit and the associated spray booth is based upon stack testing conducted on January 4 & 5, 1994.
2. The permittee shall collect and record the following information for each day for the oven:
 - a. the total potential (prior to applying the booth/oven "split") uncontrolled daily OC emission rate for all coatings employed in the coating operation associated with this emissions unit, multiplied by the maximum percentage of the emissions associated with this emissions unit (as defined in section A.III.1. of this permit), in pounds per day;
 - b. the total number of hours this emissions unit was in operation (this number should be the same as the number of hours the associated coating operation was in operation); and
 - c. the average hourly OC emission rate, i.e., (a)/(b), in pounds per hour (average).

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day during which the average hourly OC emissions exceeded 3 pounds per hour, and the actual average hourly OC emissions for each such day; and
 - b. an identification of each day during which the OC emissions exceeded 15 pounds per day, and the actual OC emissions for each such day.
2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the allowable emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a Emission Limitation: 3 lbs OC/hr

Applicable Compliance Method: Compliance shall be demonstrated in accordance with the recordkeeping requirements specified in section A.III.2.
 - 1.b Emission Limitation: 15 lbs OC/day

Applicable Compliance Method: Compliance shall be demonstrated in accordance with the recordkeeping requirements specified in section A.III.2.
 - 1.c Emission Limitation: 2.74 TPY OC

Applicable Compliance Method: Compliance shall be based on the record keeping specified in section A.III.2. of this permit and shall be the sum of the daily OC emission rates for the calendar year divided by 2000 lbs/ton.
2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Top Coat Oven Front Line (P005)
Activity Description: Topcoat Bake Oven

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Top coating bake oven on front line for coated plastic parts	OAC rule 3745-21-07(G)(1)	Organic compound (OC) emissions shall not exceed 3 lbs/hr and 15 lbs/day.
	OAC rule 3745-31-05(A)(3) PTI 02-9123	OC emissions shall not exceed 2.74 tons/year.

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. For purposes of calculating the OC emission rates for this emissions unit and the associated spray booth (R004), the permittee shall utilize a value of 97% as the maximum percentage of the OCs employed in the spray booth that are emitted uncontrolled from the coating operations at the spray booth. The remaining 3% of the OCs employed in the spray booth, from the coating operations, shall be considered to be the uncontrolled emissions for this emissions unit. This "split" of OC emissions between this emissions unit and the associated spray booth is based upon stack testing conducted on January 4 & 5, 1994.
2. The permittee shall collect and record the following information for each day for the oven:
 - a. the total potential (prior to applying the booth/oven "split") uncontrolled daily OC emission rate for all coatings employed in the coating operation associated with this emissions unit, multiplied by the maximum percentage of the emissions associated with this emissions unit (as defined in section A.III.1. of this permit), in pounds per day;
 - b. the total number of hours this emissions unit was in operation (this number should be the same as the number of hours the associated coating operation was in operation); and
 - c. the average hourly OC emission rate, i.e., (a)/(b), in pounds per hour (average).

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day during which the average hourly OC emissions exceeded 3 pounds per hour, and the actual average hourly OC emissions for each such day; and
 - b. an identification of each day during which the OC emissions exceeded 15 pounds per day, and the actual OC emissions for each such day.
2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the allowable emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a Emission Limitation: 3 lbs OC/hr

Applicable Compliance Method: Compliance shall be demonstrated in accordance with the recordkeeping requirements specified in section A.III.2.
 - 1.b Emission Limitation: 15 lbs OC/day

Applicable Compliance Method: Compliance shall be demonstrated in accordance with the recordkeeping requirements specified in section A.III.2.
 - 1.c Emission Limitation: 2.74 TPY OC

Applicable Compliance Method: Compliance shall be based on the record keeping specified in section A.III.2. of this permit and shall be the sum of the daily OC emission rates for the calendar year divided by 2000 lbs/ton.
2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Molding Press # 225 (P006)
Activity Description: 2000 Ton Molding Press

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Compression mold press #225 for fiberglass reinforced plastic parts	OAC rule 3745-21-07(G)(2)	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day. See section A.1.2.a.
	OAC rule 3745-31-05(A)(3) PTI 02-11578	OC emissions shall not exceed 7.3 tons/year.

2. Additional Terms and Conditions

- 2.a The OC emissions from the molding operations are comprised of styrene, a photochemically reactive material.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each mold compound, each wet mix and each preform employed.
 - b. The number of pounds of each mold compound employed.
 - c. The number of pounds of each wet mix and each preform employed.
 - d. The total organic compound emission rate for all mold compounds and all wet mixes/preforms employed, in pounds per day.
 - e. The total number of hours the emissions unit was in operation.
 - f. The average hourly organic compound emission rate for all mold compounds and all wet mixes/preforms employed, i.e., (d)/(e), in pounds per hour (average).

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average hourly organic compound emissions from the mold compounds and the wet mixes/preforms exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for each such day.
 - b. An identification of each day during which the organic compound emissions from the mold compounds and the wet mixes/preforms exceeded 40 pounds per day, and the actual organic compound emissions for each such day.
2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emissions limitation(s) in section A. I. 1. of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation: 8 lbs OC/hr

Applicable Compliance Method: Compliance shall be determined based upon the record keeping specified in section A.III.1.f. of these terms and conditions. If required, the permittee shall use U.S. EPA Method 18, 25 or 25A, as appropriate.

1.b Emission Limitation: 40 lbs OC/day

Applicable Compliance Method: Determination of daily organic compound emissions for all mold compounds and all wet mixes/preforms:

$$E_{OC} = [\text{summation of } (W_i_{MC}) \times EF] + \{\text{summation of } [(W_i_{WM}) + (W_i_{PF})] \times EF\}$$

Where the following applies:

E_{OC} = daily, OC emissions for all mold compounds and all wet mixes/preforms, as required in the record keeping specified in section A.III.1.d., in pounds per day.

W_i_{MC} = the weight of mold compound "i" employed, in pounds per day.

W_i_{WM} = the weight of wet mix "i" employed, in pounds per day.

W_i_{PF} = the weight of preform "i" employed, in pounds per day.

EF = emission factor for styrene emissions from the mold presses, which is 0.00134 pounds per pound of mold compound or wet mix/preform, as determined from a Society of Plastics Industry report, "Styrene Emissions during the Charging and Molding Cycle".

1.c Emission Limitation: 7.3 TPY OC

Applicable Compliance Method: Compliance shall be based on the record keeping specified in section A.III.1.d. of these terms and conditions and shall be the sum of the daily OC emission rates for the calendar year divided by 2000 lbs/ton.

2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

Facility Name: **Molded Fiber Glass Companies, Composite Systems Co**
Facility ID: **02-04-01-0230**
Emissions Unit: **Molding Press # 225 (P006)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: SMC Machine (P007)
Activity Description: Sheet Molding Compound Machine

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Sheet molding compound machine	OAC rule 3745-21-07(G)(2) OAC rule 3745-31-05(A)(3) PTI 02-11578	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day, excluding emissions from cleanup materials. Organic compound (OC) emissions shall not exceed 100 lbs/day and 18.25 tons/year, including emissions from cleanup materials.

2. Additional Terms and Conditions

- 2.a The emissions of organic material from the compounding operations consist of styrene, a photochemcially reactive material.
- 2.b Only nonphotchemcially reactive cleanup materials shall be employed. A photochemcially reactive material is defined by OAC rule 3745-21-01(C)(5) and is determined at the time the material is employed.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each mold compound manufactured and each cleanup material employed.
 - b. An identification of whether or not each cleanup material employed is a photochemically reactive material.
 - c. The number of pounds of each mold compound manufactured.
 - d. The organic compound content of each mold compound, in percent by weight.
 - e. The total OC emission rate from all mold compounds, in pounds per day.
 - f. The total number of hours the emissions unit was in operation.
 - g. The average hourly OC emission rate from all mold compounds, i.e., (e)/(f), in pounds per hour (average).
 - h. The number of gallons of each cleanup material dispensed.
 - i. The number of gallons of each cleanup material returned.
 - j. The number of gallons of each cleanup material emitted, which is estimated by subtracting the volume of returned cleanup material from the volume of dispensed cleanup material, in gallons per day.
 - k. The organic compound content of each cleanup material, in pounds per gallon.
 - l. The OC emission rate for all cleanup materials, in pounds per day.
 - m. The total, daily organic compound emission rate, which is the sum of the compounding operation emissions and all cleanup material emissions, i.e. (e) +(l), in pounds per day.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average hourly OC emissions from the compounding operations exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - b. An identification of each day during which the OC emissions from the compounding operations exceeded 40 pounds per day, and the actual OC emissions for each such day.
 - c. An identification of each day during which the OC emissions from the compounding operations and cleanup materials exceeded 100 pounds per day, and the actual OC emissions for each such day.
 - d. An identification of each day during which any photochemically reactive cleanup materials were employed.
2. The permittee shall also submit annual reports which specify the total OC emissions from all operations for the previous calendar year, in tons per year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emissions limitation(s) in section A. I. 1. of these terms and conditions shall be determined in accordance with the following method(s):

V. Testing Requirements (continued)

- 1.a** Emission Limitation: 8 lbs OC/hr, excluding emissions from cleanup materials.

Applicable Compliance Method: Compliance shall be determined based upon the record keeping specified in section A.III.1 g. of these terms and conditions. If required, the permittee shall use U.S. EPA Method 18, 25 or 25A, as appropriate.

- 1.b** Emission Limitation: 40 lbs OC/day, excluding emissions from cleanup materials.

Applicable Compliance Method: To calculate OC emissions from the compounding operations for purposes of determining compliance with the applicable emission limitations of this permit, the permittee shall employ the following equation:

$$E(\text{lbs/day, compounding}) = [\text{summation of } (W_i \times OC_i)] \times EF(\text{compounding})$$

Where the following applies:

$E(\text{lbs/day, compounding})$ = OC emissions, as required in the record keeping specified in section A.III.1.e., in pounds per day.

W_i = the weight of mold compound "i" employed, in pounds per day.

OC_i = the volatile organic compound content of mold compound "i", in percent by weight.

$EF(\text{compounding})$ = the emission factor for OC emissions, which is 0.001 pound per pound of available OC emissions, based on engineering analysis and/or mass balance.

- 1.c** Emissions Limitation: 100 lbs OC/day, including emissions from cleanup materials.

Applicable Compliance Method(s): To calculate total OC emissions the permittee shall employ the following:

- i. Determination of daily OC emissions from the cleanup operations:

$$E(\text{lbs/day, cleanup}) = \text{summation of } (V_i \times OC_i).$$

Where the following applies:

$E(\text{lbs/day, cleanup})$ = daily, OC emissions from all cleanup operations, as required in the record keeping specified in section A.III.1.l., in pounds per day.

V_i = the volume of cleanup material "i" emitted in pounds per day, based upon the record keeping specified in A.III.1.j. of this permit.

OC_i = the organic compound content of cleanup material "i", in pounds of organic compounds per gallon.

- ii. Determination of total OC emissions from the combination of the compounding operations and the cleanup operations, $E(\text{lbs/day, total})$:

$$E(\text{lbs/day, total}) = E(\text{lbs/day, cleanup}) + E(\text{lbs/day, compounding}).$$

Where the following applies:

$E(\text{lbs/day, compounding})$ as specified in Section A.V.1.b. of this permit.

- 1.d** Emission Limitation: 18.25 TPY OC, including emissions from cleanup materials.

Applicable Compliance Method: To calculate total OC emissions from the combination of the compounding operations and the cleanup operations, compliance shall be based on the record keeping specified in Section A.III.1.m. of this permit and is the sum of the total, daily OC emission rates for the calendar year, divided by 2000 pounds per ton.

V. Testing Requirements (continued)

2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Molding Press # 230 (P008)
Activity Description: 200 Ton Molding Press

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Compression mold press #230 for fiberglass reinforced plastic parts	OAC rule 3745-21-07(G)(2)	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day. See section A.1.2.a.
	OAC rule 3745-31-05 PTI 02-5259	OC emissions shall not exceed 7.3 tons/year.

2. Additional Terms and Conditions

- 2.a The OC emissions from the molding operations are comprised of styrene, a photochemically reactive material.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each mold compound, each wet mix and each preform employed.
 - b. The number of pounds of each mold compound employed.
 - c. The number of pounds of each wet mix and each preform employed.
 - d. The total organic compound emission rate for all mold compounds and all wet mixes/preforms employed, in pounds per day.
 - e. The total number of hours the emissions unit was in operation.
 - f. The average hourly organic compound emission rate for all mold compounds and all wet mixes/preforms employed, i.e., (d)/(e), in pounds per hour (average).

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average hourly organic compound emissions from the mold compounds and the wet mixes/preforms exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for each such day.
 - b. An identification of each day during which the organic compound emissions from the mold compounds and the wet mixes/preforms exceeded 40 pounds per day, and the actual organic compound emissions for each such day.
2. The permittee shall submit annual reports which specify the total organic compound emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emissions limitation(s) in section A. I. 1. of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation: 8 lbs OC/hr

Applicable Compliance Method: Compliance shall be determined based upon the record keeping specified in section A.III.1.f. of these terms and conditions. If required, the permittee shall use U.S. EPA Method 18, 25 or 25A, as appropriate.

1.b Emission Limitation: 40 lbs OC/day

Applicable Compliance Method: Determination of daily organic compound emissions for all mold compounds and all wet mixes/preforms:

$$E_{OC} = [\text{summation of } (W_i_{MC}) \times EF] + \{\text{summation of } [(W_i_{WM}) + (W_i_{PF})] \times EF\}$$

Where the following applies:

E_{OC} = daily, OC emissions for all mold compounds and all wet mixes/preforms, as required in the record keeping specified in section A.III.1.d., in pounds per day.

W_i_{MC} = the weight of mold compound "i" employed, in pounds per day.

W_i_{WM} = the weight of wet mix "i" employed, in pounds per day.

W_i_{PF} = the weight of preform "i" employed, in pounds per day.

EF = emission factor for styrene emissions from the mold presses, which is 0.00134 pounds per pound of mold compound or wet mix/preform, as determined from a Society of Plastics Industry report, "Styrene Emissions during the Charging and Molding Cycle".

1.c Emission Limitation: 7.3 TPY OC

Applicable Compliance Method: Compliance shall be based on the record keeping specified in section A.III.1.d. of these terms and conditions and shall be the sum of the daily OC emission rates for the calendar year divided by 2000 lbs/ton.

2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

Facility Name: **Molded Fiber Glass Companies, Composite Systems Co**
Facility ID: **02-04-01-0230**
Emissions Unit: **Molding Press # 230 (P008)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 180" Preform Machine and Oven (P009)
Activity Description: 180" Preform Machine and Oven

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
180" preform machine with a natural gas fired cure oven for fiberglass reinforced plastic parts:	OAC rule 3745-17-07(A)	Visible particulate emissions from this emissions unit shall not exceed 20% opacity as a 6-minute average, except as specified by rule.
binder mix spray-up operation	OAC rule 3745-17-11 OAC rule 3745-21-07(G)(2)	Particulate emissions (PE) shall not exceed 0.77 lb/hr. Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day from binder usage, whenever photochemically reactive materials are employed.
cure oven	OAC rule 3745-21-07(G)(1)	OC emissions shall not exceed 3 lbs/hr and 15 lbs/day from binder usage.
binder mix spray-up operation and cure oven	OAC rule 3745-31-05(A)(3) PTI 02-5259	OC emissions shall not exceed 55 lbs/day and 10.0 tons/year from binder usage.

2. Additional Terms and Conditions

None

II. Operational Restrictions

- The permittee shall burn only natural gas in this emissions unit.
- The permittee shall operate the wire mesh screen whenever this emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

- For purposes of calculating the OC emission rates for this emissions unit, the permittee shall utilize a value of 32.2% as the maximum percentage of the OCs emitted at the spray-up exhaust that are emitted uncontrolled from the spray-up operations. The remaining 67.8% of the OCs employed at the spray-up operation, shall be considered to be the uncontrolled emissions for the cure oven. This "split" of OC emissions between the spray-up operation and the cure oven is based upon in-house testing and engineering estimates conducted on July 7, 1994.

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall collect and record the following information for each day for the spray-up and cure oven operations:
 - a. The company identification for each binder mix employed.
 - b. Identification of whether or not each binder mix employed is a photochemically reactive material, as defined in OAC rule 3745-21-01(C).
 - c. The weight of each binder mix employed, in pounds per day.
 - d. The organic compound content of each binder mix, in percent by weight.
 - e. The total potential (prior to applying the spray-up/oven "split") daily OC emission rate for all binder mixes, in pounds per day.
 - f. The total potential daily OC emission rate for all binder mixes multiplied by the maximum percentage of the emissions associated with the cure oven (as defined in section A.III.1. of this permit), in pounds per day.
 - g. The total potential daily OC emission rate for all binder mixes multiplied by the maximum percentage of the emissions associated with the spray-up operation (as defined in section A.III.1. of this permit), in pounds per day.
 - h. The total number of hours the emissions unit was in operation.
 - i. The average hourly OC emission rate for the binder mixes from the cure oven, i.e., (f)/(h), in pounds per hour (average).
 - j. The average hourly OC emission rate for the binder mixes from the spray-up operation, i.e., (g)/(h), in pounds per hour (average).
3. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
4. The permittee shall maintain a weekly log of cleanings and of inspections of the physical integrity of the wire mesh screen.
5. The permittee shall properly operate the wire mesh screen and check it at least once per day when the emissions unit is in operation. The permittee shall record each day all periods of time during which the wire mesh screen was not in operation when the emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. an identification of each day during which the average hourly OC emissions from binder usage at the cure oven exceeded 3 pounds per hour, and the actual average hourly OC emissions for each such day;
 - b. an identification of each day during which the OC emissions from binder usage at the cure oven exceeded 15 pounds per day, and the actual OC emissions for each such day;
 - c. an identification of each day, whenever any photochemically reactive materials are employed, during which the average hourly OC emissions from binder usage at the spray-up operation exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day;
 - d. an identification of each day, whenever any photochemically reactive materials are employed, during which the OC emissions from binder usage at the spray-up operation exceeded 40 pounds per day, and the actual OC emissions for each such day;
 - e. an identification of each day during which the OC emissions from the spray-up operation and the cure oven exceeded 55 pounds per day, and the actual OC emissions for each such day; and
 - f. an identification of each day when a fuel other than natural gas was burned in this emissions unit.
2. The permittee shall notify the Northeast District Office in writing of any daily record showing that the wire mesh screen was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Northeast District Office within 30 days after the event occurs.
3. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the allowable emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a Emission Limitation: 20% opacity of visible particulate emissions from the spray-up operation.

Applicable Compliance Method: Compliance shall be determined based upon OAC rule 3745-17-03(B)(1), if required by Ohio EPA.
 - 1.b Emission Limitation: 0.77 lb PE/hr from the spray-up operation.

Applicable Compliance Method(s):

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests, performed accordance with 40 CFR Part 60, Appendix A, Methods 1-5.
 - 1.c Emission Limitation: 3 lbs OC/hr from binder usage at the cure oven.

Applicable Compliance Method: Compliance shall be demonstrated in accordance with the record keeping requirements specified in section A.III.2.i.
 - 1.d Emission Limitation: 15 lbs OC/day from binder usage at the cure oven.

Applicable Compliance Method: Compliance shall be demonstrated in accordance with the record keeping requirements specified in section A.III.2.f.
 - 1.e Emission Limitation: 8 lbs OC/hr from binder usage at the spray-up operation.

Applicable Compliance Method: Compliance shall be demonstrated in accordance with the record keeping requirements specified in section A.III.2.j.

V. Testing Requirements (continued)

1.f Emission Limitation: 40 lbs OC/day from binder usage at the spray-up operation.

Applicable Compliance Method: Compliance shall be demonstrated in accordance with the record keeping requirements specified in section A.III.2.g.

1.g Emission Limitation: 55 lbs OC/day from binder usage.

Applicable Compliance Method: Compliance shall be demonstrated in accordance with the record keeping requirements specified in section A.III.2.e.

1.h Emission Limitation: 10.0 TPY OC from binder usage.

Applicable Compliance Method: Compliance shall be based on the record keeping specified in section A.III.2.e. of this permit and shall be the sum of the daily OC emission rates for the calendar year divided by 2000 lbs/ton.

2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Prime Oven Back Line (P010)
Activity Description: Prime Coating Bake Oven

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Prime coating bake oven on back line for coated plastic parts	OAC rule 3745-21-07(G)(1)	Organic compound (OC) emissions shall not exceed 3 lbs/hr and 15 lbs/day.
	OAC rule 3745-31-05(A)(3) PTI 02-8904	OC emissions shall not exceed 2.74 tons/year.

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

- For purposes of calculating the OC emission rates for this emissions unit and the associated spray booth (R005), the permittee shall utilize a value of 97% as the maximum percentage of the OCs employed in the spray booth that are emitted uncontrolled from the coating operations at the spray booth. The remaining 3% of the OCs employed in the spray booth, from the coating operations, shall be considered to be the uncontrolled emissions for this emissions unit. This "split" of OC emissions between this emissions unit and the associated spray booth is based upon stack testing conducted on January 4 & 5, 1994.
- The permittee shall collect and record the following information for each day for the oven:
 - the total potential (prior to applying the booth/oven "split") uncontrolled daily OC emission rate for all coatings employed in the coating operation associated with this emissions unit, multiplied by the maximum percentage of the emissions associated with this emissions unit (as defined in section A.III.1. of this permit), in pounds per day;
 - the total number of hours this emissions unit was in operation (this number should be the same as the number of hours the associated coating operation was in operation); and
 - the average hourly OC emission rate, i.e., (a)/(b), in pounds per hour (average).

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day during which the average hourly OC emissions exceeded 3 pounds per hour, and the actual average hourly OC emissions for each such day; and
 - b. an identification of each day during which the OC emissions exceeded 15 pounds per day, and the actual OC emissions for each such day.
2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the allowable emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a Emission Limitation: 3 lbs OC/hr

Applicable Compliance Method: Compliance shall be demonstrated in accordance with the recordkeeping requirements specified in section A.III.2.
 - 1.b Emission Limitation: 15 lbs OC/day

Applicable Compliance Method: Compliance shall be demonstrated in accordance with the recordkeeping requirements specified in section A.III.2.
 - 1.c Emission Limitation: 2.74 TPY OC

Applicable Compliance Method: Compliance shall be based on the record keeping specified in section A.III.2. of this permit and shall be the sum of the daily OC emission rates for the calendar year divided by 2000 lbs/ton.
2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Topcoat Oven Back Line (P011)
Activity Description: Topcoat Bake Oven

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Top coating bake oven on back line for coated plastic parts	OAC rule 3745-21-07(G)(1)	Organic compound (OC) emissions shall not exceed 3 lbs/hr and 15 lbs/day.
	OAC rule 3745-31-05(A)(3) PTI 02-8904	OC emissions shall not exceed 2.74 tons/year.

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. For purposes of calculating the OC emission rates for this emissions unit and the associated spray booth (R006), the permittee shall utilize a value of 97% as the maximum percentage of the OCs employed in the spray booth that are emitted uncontrolled from the coating operations at the spray booth. The remaining 3% of the OCs employed in the spray booth, from the coating operations, shall be considered to be the uncontrolled emissions for this emissions unit. This "split" of OC emissions between this emissions unit and the associated spray booth is based upon stack testing conducted on January 4 & 5, 1994.
2. The permittee shall collect and record the following information for each day for the oven:
 - a. the total potential (prior to applying the booth/oven "split") uncontrolled daily OC emission rate for all coatings employed in the coating operation associated with this emissions unit, multiplied by the maximum percentage of the emissions associated with this emissions unit (as defined in section A.III.1. of this permit), in pounds per day;
 - b. the total number of hours this emissions unit was in operation (this number should be the same as the number of hours the associated coating operation was in operation); and
 - c. the average hourly OC emission rate, i.e., (a)/(b), in pounds per hour (average).

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day during which the average hourly OC emissions exceeded 3 pounds per hour, and the actual average hourly OC emissions for each such day; and
 - b. an identification of each day during which the OC emissions exceeded 15 pounds per day, and the actual OC emissions for each such day.
2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the allowable emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a Emission Limitation: 3 lbs OC/hr

Applicable Compliance Method: Compliance shall be demonstrated in accordance with the recordkeeping requirements specified in section A.III.2.
 - 1.b Emission Limitation: 15 lbs OC/day

Applicable Compliance Method: Compliance shall be demonstrated in accordance with the recordkeeping requirements specified in section A.III.2.
 - 1.c Emission Limitation: 2.74 TPY OC

Applicable Compliance Method: Compliance shall be based on the record keeping specified in section A.III.2. of this permit and shall be the sum of the daily OC emission rates for the calendar year divided by 2000 lbs/ton.
2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Molding Press #227 (P012)
Activity Description: 1500 Ton Molding Press

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Compression mold press #227 for fiberglass reinforced plastic parts	OAC rule 3745-21-07(G)(2)	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day. See section A.1.2.a.
	OAC rule 3745-31-05(A)(3) PTI 02-11578	OC emissions shall not exceed 7.3 tons/year.

2. Additional Terms and Conditions

- 2.a The OC emissions from the molding operations are comprised of styrene, a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each mold compound, each wet mix and each preform employed.
 - b. The number of pounds of each mold compound employed.
 - c. The number of pounds of each wet mix and each preform employed.
 - d. The total OC emission rate for all mold compounds and all wet mixes/preforms employed, in pounds per day.
 - e. The total number of hours the emissions unit was in operation.
 - f. The average hourly OC emission rate for all mold compounds and all wet mixes/preforms employed, i.e., (d)/(e), in pounds per hour (average).

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average hourly OC emissions from the mold compounds and the wet mixes/preforms exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - b. An identification of each day during which the OC emissions from the mold compounds and the wet mixes/preforms exceeded 40 pounds per day, and the actual OC emissions for each such day.
2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emissions limitation(s) in section A. I. 1. of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation: 8 lbs OC/hr

Applicable Compliance Method: Compliance shall be determined based upon the record keeping specified in section A.III.1.f. of these terms and conditions. If required, the permittee shall use U.S. EPA Method 18, 25 or 25A, as appropriate.

1.b Emission Limitation: 40 lbs OC/day

Applicable Compliance Method: Determination of daily OC emissions for all mold compounds and all wet mixes/preforms:

$$E_{OC} = [\text{summation of } (W_i_{MC}) \times EF] + \{\text{summation of } [(W_i_{WM}) + (W_i_{PF})] \times EF\}$$

Where the following applies:

E_{OC} = daily, OC emissions for all mold compounds and all wet mixes/preforms, as required in the record keeping specified in section A.III.1.d., in pounds per day.

W_i_{MC} = the weight of mold compound "i" employed, in pounds per day.

W_i_{WM} = the weight of wet mix "i" employed, in pounds per day.

W_i_{PF} = the weight of preform "i" employed, in pounds per day.

EF = emission factor for styrene emissions from the mold presses, which is 0.00134 pounds per pound of mold compound or wet mix/preform, as determined from a Society of Plastics Industry report, "Styrene Emissions during the Charging and Molding Cycle".

1.c Emission Limitation: 7.3 TPY OC

Applicable Compliance Method: Compliance shall be based on the record keeping specified in section A.III.1.d. of these terms and conditions and shall be the sum of the daily OC emission rates for the calendar year divided by 2000 lbs/ton.

2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

Facility Name: **Molded Fiber Glass Companies, Composite Systems Co**
Facility ID: **02-04-01-0230**
Emissions Unit: **Molding Press #227 (P012)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Molding Press #224 (P013)
Activity Description: 1500 Ton Molding Press

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Compression mold press #224 for fiberglass reinforced plastic parts	OAC rule 3745-21-07(G)(2)	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day. See section A.1.2.a.
	OAC rule 3745-31-05(A)(3) PTI 02-11578	OC emissions shall not exceed 7.3 tons/year.

2. Additional Terms and Conditions

- 2.a The OC emissions from the molding operations are comprised of styrene, a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each mold compound, each wet mix and each preform employed.
 - b. The number of pounds of each mold compound employed.
 - c. The number of pounds of each wet mix and each preform employed.
 - d. The total OC emission rate for all mold compounds and all wet mixes/preforms employed, in pounds per day.
 - e. The total number of hours the emissions unit was in operation.
 - f. The average hourly OC emission rate for all mold compounds and all wet mixes/preforms employed, i.e., (d)/(e), in pounds per hour (average).

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average hourly OC emissions from the mold compounds and the wet mixes/preforms exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - b. An identification of each day during which the OC emissions from the mold compounds and the wet mixes/preforms exceeded 40 pounds per day, and the actual OC emissions for each such day.
2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emissions limitation(s) in section A. I. 1. of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation: 8 lbs OC/hr

Applicable Compliance Method: Compliance shall be determined based upon the record keeping specified in section A.III.1.f. of these terms and conditions. If required, the permittee shall use U.S. EPA Method 18, 25 or 25A, as appropriate.

1.b Emission Limitation: 40 lbs OC/day

Applicable Compliance Method: Determination of daily OC emissions for all mold compounds and all wet mixes/preforms:

$$E_{OC} = [\text{summation of } (W_i_{MC}) \times EF] + \{\text{summation of } [(W_i_{WM}) + (W_i_{PF})] \times EF\}$$

Where the following applies:

E_{OC} = daily, OC emissions for all mold compounds and all wet mixes/preforms, as required in the record keeping specified in section A.III.1.d., in pounds per day.

W_i_{MC} = the weight of mold compound "i" employed, in pounds per day.

W_i_{WM} = the weight of wet mix "i" employed, in pounds per day.

W_i_{PF} = the weight of preform "i" employed, in pounds per day.

EF = emission factor for styrene emissions from the mold presses, which is 0.00134 pounds per pound of mold compound or wet mix/preform, as determined from a Society of Plastics Industry report, "Styrene Emissions during the Charging and Molding Cycle".

1.c Emission Limitation: 7.3 TPY OC

Applicable Compliance Method: Compliance shall be based on the record keeping specified in section A.III.1.d. of these terms and conditions and shall be the sum of the daily OC emission rates for the calendar year divided by 2000 lbs/ton.

2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

Facility Name: **Molded Fiber Glass Companies, Composite Systems Co**
Facility ID: **02-04-01-0230**
Emissions Unit: **Molding Press #224 (P013)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Molding Press #222 (P014)
Activity Description: 1500 Ton Molding Press

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Compression mold press #222 for fiberglass reinforced plastic parts	OAC rule 3745-21-07(G)(2)	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day. See section A.1.2.a.
	OAC rule 3745-31-05(A)(3) PTI 02-11578	OC emissions shall not exceed 7.3 tons/year.

2. Additional Terms and Conditions

- 2.a The OC emissions from the molding operations are comprised of styrene, a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each mold compound, each wet mix and each preform employed.
 - b. The number of pounds of each mold compound employed.
 - c. The number of pounds of each wet mix and each preform employed.
 - d. The total OC emission rate for all mold compounds and all wet mixes/preforms employed, in pounds per day.
 - e. The total number of hours the emissions unit was in operation.
 - f. The average hourly OC emission rate for all mold compounds and all wet mixes/preforms employed, i.e., (d)/(e), in pounds per hour (average).

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average hourly OC emissions from the mold compounds and the wet mixes/preforms exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - b. An identification of each day during which the OC emissions from the mold compounds and the wet mixes/preforms exceeded 40 pounds per day, and the actual OC emissions for each such day.
2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emissions limitation(s) in section A. I. 1. of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation: 8 lbs OC/hr

Applicable Compliance Method: Compliance shall be determined based upon the record keeping specified in section A.III.1.f. of these terms and conditions. If required, the permittee shall use U.S. EPA Method 18, 25 or 25A, as appropriate.

1.b Emission Limitation: 40 lbs OC/day

Applicable Compliance Method: Determination of daily OC emissions for all mold compounds and all wet mixes/preforms:

$$E_{OC} = [\text{summation of } (W_i_{MC}) \times EF] + \{\text{summation of } [(W_i_{WM}) + (W_i_{PF})] \times EF\}$$

Where the following applies:

E_{OC} = daily, OC emissions for all mold compounds and all wet mixes/preforms, as required in the record keeping specified in section A.III.1.d., in pounds per day.

W_i_{MC} = the weight of mold compound "i" employed, in pounds per day.

W_i_{WM} = the weight of wet mix "i" employed, in pounds per day.

W_i_{PF} = the weight of preform "i" employed, in pounds per day.

EF = emission factor for styrene emissions from the mold presses, which is 0.00134 pounds per pound of mold compound or wet mix/preform, as determined from a Society of Plastics Industry report, "Styrene Emissions during the Charging and Molding Cycle".

1.c Emission Limitation: 7.3 TPY OC

Applicable Compliance Method: Compliance shall be based on the record keeping specified in section A.III.1.d. of these terms and conditions and shall be the sum of the daily OC emission rates for the calendar year divided by 2000 lbs/ton.

2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

Facility Name: **Molded Fiber Glass Companies, Composite Systems Co**
Facility ID: **02-04-01-0230**
Emissions Unit: **Molding Press #222 (P014)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Molding Press #221 (P015)
Activity Description: 1500 Ton Molding Press

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Compression mold press #221 for fiberglass reinforced plastic parts	OAC rule 3745-21-07(G)(2)	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day. See section A.1.2.a.
	OAC rule 3745-31-05(A)(3) PTI 02-11578	OC emissions shall not exceed 7.3 tons/year.

2. Additional Terms and Conditions

- 2.a The OC emissions from the molding operations are comprised of styrene, a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each mold compound, each wet mix and each preform employed.
 - b. The number of pounds of each mold compound employed.
 - c. The number of pounds of each wet mix and each preform employed.
 - d. The total OC emission rate for all mold compounds and all wet mixes/preforms employed, in pounds per day.
 - e. The total number of hours the emissions unit was in operation.
 - f. The average hourly OC emission rate for all mold compounds and all wet mixes/preforms employed, i.e., (d)/(e), in pounds per hour (average).

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average hourly OC emissions from the mold compounds and the wet mixes/preforms exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - b. An identification of each day during which the OC emissions from the mold compounds and the wet mixes/preforms exceeded 40 pounds per day, and the actual OC emissions for each such day.
2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emissions limitation(s) in section A. I. 1. of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation: 8 lbs OC/hr

Applicable Compliance Method: Compliance shall be determined based upon the record keeping specified in section A.III.1.f. of these terms and conditions. If required, the permittee shall use U.S. EPA Method 18, 25 or 25A, as appropriate.

1.b Emission Limitation: 40 lbs OC/day

Applicable Compliance Method: Determination of daily OC emissions for all mold compounds and all wet mixes/preforms:

$$E_{OC} = [\text{summation of } (W_i_{MC}) \times EF] + \{\text{summation of } [(W_i_{WM}) + (W_i_{PF})] \times EF\}$$

Where the following applies:

E_{OC} = daily, OC emissions for all mold compounds and all wet mixes/preforms, as required in the record keeping specified in section A.III.1.d., in pounds per day.

W_i_{MC} = the weight of mold compound "i" employed, in pounds per day.

W_i_{WM} = the weight of wet mix "i" employed, in pounds per day.

W_i_{PF} = the weight of preform "i" employed, in pounds per day.

EF = emission factor for styrene emissions from the mold presses, which is 0.00134 pounds per pound of mold compound or wet mix/preform, as determined from a Society of Plastics Industry report, "Styrene Emissions during the Charging and Molding Cycle".

1.c Emission Limitation: 7.3 TPY OC

Applicable Compliance Method: Compliance shall be based on the record keeping specified in section A.III.1.d. of these terms and conditions and shall be the sum of the daily OC emission rates for the calendar year divided by 2000 lbs/ton.

2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

Facility Name: **Molded Fiber Glass Companies, Composite Systems Co**
Facility ID: **02-04-01-0230**
Emissions Unit: **Molding Press #221 (P015)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Molding Press #202 (P016)
Activity Description: 880 Ton Molding Press

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Compression mold press #202 for fiberglass reinforced plastic parts	OAC rule 3745-21-07(G)(2)	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day. See section A.1.2.a.
	OAC rule 3745-31-05(A)(3) PTI 02-11578	OC emissions shall not exceed 7.3 tons/year.

2. Additional Terms and Conditions

- 2.a The OC emissions from the molding operations are comprised of styrene, a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each mold compound, each wet mix and each preform employed.
 - b. The number of pounds of each mold compound employed.
 - c. The number of pounds of each wet mix and each preform employed.
 - d. The total OC emission rate for all mold compounds and all wet mixes/preforms employed, in pounds per day.
 - e. The total number of hours the emissions unit was in operation.
 - f. The average hourly OC emission rate for all mold compounds and all wet mixes/preforms employed, i.e., (d)/(e), in pounds per hour (average).

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average hourly OC emissions from the mold compounds and the wet mixes/preforms exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - b. An identification of each day during which the OC emissions from the mold compounds and the wet mixes/preforms exceeded 40 pounds per day, and the actual OC emissions for each such day.
2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emissions limitation(s) in section A. I. 1. of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation: 8 lbs OC/hr

Applicable Compliance Method: Compliance shall be determined based upon the record keeping specified in section A.III.1.f. of these terms and conditions. If required, the permittee shall use U.S. EPA Method 18, 25 or 25A, as appropriate.

1.b Emission Limitation: 40 lbs OC/day

Applicable Compliance Method: Determination of daily OC emissions for all mold compounds and all wet mixes/preforms:

$$E_{OC} = [\text{summation of } (W_i_{MC}) \times EF] + \{\text{summation of } [(W_i_{WM}) + (W_i_{PF})] \times EF\}$$

Where the following applies:

E_{OC} = daily, OC emissions for all mold compounds and all wet mixes/preforms, as required in the record keeping specified in section A.III.1.d., in pounds per day.

W_i_{MC} = the weight of mold compound "i" employed, in pounds per day.

W_i_{WM} = the weight of wet mix "i" employed, in pounds per day.

W_i_{PF} = the weight of preform "i" employed, in pounds per day.

EF = emission factor for styrene emissions from the mold presses, which is 0.00134 pounds per pound of mold compound or wet mix/preform, as determined from a Society of Plastics Industry report, "Styrene Emissions during the Charging and Molding Cycle".

1.c Emission Limitation: 7.3 TPY OC

Applicable Compliance Method: Compliance shall be based on the record keeping specified in section A.III.1.d. of these terms and conditions and shall be the sum of the daily OC emission rates for the calendar year divided by 2000 lbs/ton.

2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

Facility Name: **Molded Fiber Glass Companies, Composite Systems Co**
Facility ID: **02-04-01-0230**
Emissions Unit: **Molding Press #202 (P016)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Molding Press #201 (P017)
Activity Description: 565 Ton Molding Press

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Compression mold press #201 for fiberglass reinforced plastic parts	OAC rule 3745-21-07(G)(2)	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day. See section A.1.2.a.
	OAC rule 3745-31-05(A)(3) PTI 02-11578	OC emissions shall not exceed 7.3 tons/year.

2. Additional Terms and Conditions

- 2.a The OC emissions from the molding operations are comprised of styrene, a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each mold compound, each wet mix and each preform employed.
 - b. The number of pounds of each mold compound employed.
 - c. The number of pounds of each wet mix and each preform employed.
 - d. The total OC emission rate for all mold compounds and all wet mixes/preforms employed, in pounds per day.
 - e. The total number of hours the emissions unit was in operation.
 - f. The average hourly OC emission rate for all mold compounds and all wet mixes/preforms employed, i.e., (d)/(e), in pounds per hour (average).

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average hourly OC emissions from the mold compounds and the wet mixes/preforms exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - b. An identification of each day during which the OC emissions from the mold compounds and the wet mixes/preforms exceeded 40 pounds per day, and the actual OC emissions for each such day.
2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emissions limitation(s) in section A. I. 1. of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation: 8 lbs OC/hr

Applicable Compliance Method: Compliance shall be determined based upon the record keeping specified in section A.III.1.f. of these terms and conditions. If required, the permittee shall use U.S. EPA Method 18, 25 or 25A, as appropriate.

1.b Emission Limitation: 40 lbs OC/day

Applicable Compliance Method: Determination of daily OC emissions for all mold compounds and all wet mixes/preforms:

$$E_{OC} = [\text{summation of } (W_i_{MC}) \times EF] + \{\text{summation of } [(W_i_{WM}) + (W_i_{PF})] \times EF\}$$

Where the following applies:

E_{OC} = daily, OC emissions for all mold compounds and all wet mixes/preforms, as required in the record keeping specified in section A.III.1.d., in pounds per day.

W_i_{MC} = the weight of mold compound "i" employed, in pounds per day.

W_i_{WM} = the weight of wet mix "i" employed, in pounds per day.

W_i_{PF} = the weight of preform "i" employed, in pounds per day.

EF = emission factor for styrene emissions from the mold presses, which is 0.00134 pounds per pound of mold compound or wet mix/preform, as determined from a Society of Plastics Industry report, "Styrene Emissions during the Charging and Molding Cycle".

1.c Emission Limitation: 7.3 TPY OC

Applicable Compliance Method: Compliance shall be based on the record keeping specified in section A.III.1.d. of these terms and conditions and shall be the sum of the daily OC emission rates for the calendar year divided by 2000 lbs/ton.

2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

Facility Name: **Molded Fiber Glass Companies, Composite Systems Co**
Facility ID: **02-04-01-0230**
Emissions Unit: **Molding Press #201 (P017)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Molding Press #203 (P018)
Activity Description: 565 Ton Molding Press

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Compression mold press #203 for fiberglass reinforced plastic parts	OAC rule 3745-21-07(G)(2)	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day. See section A.1.2.a.
	OAC rule 3745-31-05(A)(3) PTI 02-11578	OC emissions shall not exceed 7.3 tons/year.

2. Additional Terms and Conditions

- 2.a The OC emissions from the molding operations are comprised of styrene, a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each mold compound, each wet mix and each preform employed.
 - b. The number of pounds of each mold compound employed.
 - c. The number of pounds of each wet mix and each preform employed.
 - d. The total OC emission rate for all mold compounds and all wet mixes/preforms employed, in pounds per day.
 - e. The total number of hours the emissions unit was in operation.
 - f. The average hourly OC emission rate for all mold compounds and all wet mixes/preforms employed, i.e., (d)/(e), in pounds per hour (average).

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average hourly OC emissions from the mold compounds and the wet mixes/preforms exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - b. An identification of each day during which the OC emissions from the mold compounds and the wet mixes/preforms exceeded 40 pounds per day, and the actual OC emissions for each such day.
2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emissions limitation(s) in section A. I. 1. of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation: 8 lbs OC/hr

Applicable Compliance Method: Compliance shall be determined based upon the record keeping specified in section A.III.1.f. of these terms and conditions. If required, the permittee shall use U.S. EPA Method 18, 25 or 25A, as appropriate.

1.b Emission Limitation: 40 lbs OC/day

Applicable Compliance Method: Determination of daily OC emissions for all mold compounds and all wet mixes/preforms:

$$E_{OC} = [\text{summation of } (W_i_{MC}) \times EF] + \{\text{summation of } [(W_i_{WM}) + (W_i_{PF})] \times EF\}$$

Where the following applies:

E_{OC} = daily, OC emissions for all mold compounds and all wet mixes/preforms, as required in the record keeping specified in section A.III.1.d., in pounds per day.

W_i_{MC} = the weight of mold compound "i" employed, in pounds per day.

W_i_{WM} = the weight of wet mix "i" employed, in pounds per day.

W_i_{PF} = the weight of preform "i" employed, in pounds per day.

EF = emission factor for styrene emissions from the mold presses, which is 0.00134 pounds per pound of mold compound or wet mix/preform, as determined from a Society of Plastics Industry report, "Styrene Emissions during the Charging and Molding Cycle".

1.c Emission Limitation: 7.3 TPY OC

Applicable Compliance Method: Compliance shall be based on the record keeping specified in section A.III.1.d. of these terms and conditions and shall be the sum of the daily OC emission rates for the calendar year divided by 2000 lbs/ton.

2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

Facility Name: **Molded Fiber Glass Companies, Composite Systems Co**
Facility ID: **02-04-01-0230**
Emissions Unit: **Molding Press #203 (P018)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Molding Press #206 (P019)
Activity Description: 450 Ton Molding Press

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Compression mold press #206 for fiberglass reinforced plastic parts	OAC rule 3745-21-07(G)(2)	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day. See section A.1.2.a.
	OAC rule 3745-31-05(A)(3) PTI 02-11578	OC emissions shall not exceed 7.3 tons/year.

2. Additional Terms and Conditions

- 2.a The OC emissions from the molding operations are comprised of styrene, a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each mold compound, each wet mix and each preform employed.
 - b. The number of pounds of each mold compound employed.
 - c. The number of pounds of each wet mix and each preform employed.
 - d. The total OC emission rate for all mold compounds and all wet mixes/preforms employed, in pounds per day.
 - e. The total number of hours the emissions unit was in operation.
 - f. The average hourly OC emission rate for all mold compounds and all wet mixes/preforms employed, i.e., (d)/(e), in pounds per hour (average).

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average hourly OC emissions from the mold compounds and the wet mixes/preforms exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - b. An identification of each day during which the OC emissions from the mold compounds and the wet mixes/preforms exceeded 40 pounds per day, and the actual OC emissions for each such day.
2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emissions limitation(s) in section A. I. 1. of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation: 8 lbs OC/hr

Applicable Compliance Method: Compliance shall be determined based upon the record keeping specified in section A.III.1.f. of these terms and conditions. If required, the permittee shall use U.S. EPA Method 18, 25 or 25A, as appropriate.

1.b Emission Limitation: 40 lbs OC/day

Applicable Compliance Method: Determination of daily OC emissions for all mold compounds and all wet mixes/preforms:

$$E_{OC} = [\text{summation of } (W_i_{MC}) \times EF] + \{\text{summation of } [(W_i_{WM}) + (W_i_{PF})] \times EF\}$$

Where the following applies:

E_{OC} = daily, OC emissions for all mold compounds and all wet mixes/preforms, as required in the record keeping specified in section A.III.1.d., in pounds per day.

W_i_{MC} = the weight of mold compound "i" employed, in pounds per day.

W_i_{WM} = the weight of wet mix "i" employed, in pounds per day.

W_i_{PF} = the weight of preform "i" employed, in pounds per day.

EF = emission factor for styrene emissions from the mold presses, which is 0.00134 pounds per pound of mold compound or wet mix/preform, as determined from a Society of Plastics Industry report, "Styrene Emissions during the Charging and Molding Cycle".

1.c Emission Limitation: 7.3 TPY OC

Applicable Compliance Method: Compliance shall be based on the record keeping specified in section A.III.1.d. of these terms and conditions and shall be the sum of the daily OC emission rates for the calendar year divided by 2000 lbs/ton.

2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

Facility Name: **Molded Fiber Glass Companies, Composite Systems Co**
Facility ID: **02-04-01-0230**
Emissions Unit: **Molding Press #206 (P019)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Molding Press #207 (P020)
Activity Description: 450 Ton Molding Press

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Compression mold press #207 for fiberglass reinforced plastic parts	OAC rule 3745-21-07(G)(2)	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day. See section A.1.2.a.
	OAC rule 3745-31-05(A)(3) PTI 02-11578	OC emissions shall not exceed 7.3 tons/year.

2. Additional Terms and Conditions

- 2.a The OC emissions from the molding operations are comprised of styrene, a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each mold compound, each wet mix and each preform employed.
 - b. The number of pounds of each mold compound employed.
 - c. The number of pounds of each wet mix and each preform employed.
 - d. The total OC emission rate for all mold compounds and all wet mixes/preforms employed, in pounds per day.
 - e. The total number of hours the emissions unit was in operation.
 - f. The average hourly OC emission rate for all mold compounds and all wet mixes/preforms employed, i.e., (d)/(e), in pounds per hour (average).

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average hourly OC emissions from the mold compounds and the wet mixes/preforms exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - b. An identification of each day during which the OC emissions from the mold compounds and the wet mixes/preforms exceeded 40 pounds per day, and the actual OC emissions for each such day.
2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emissions limitation(s) in section A. I. 1. of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation: 8 lbs OC/hr

Applicable Compliance Method: Compliance shall be determined based upon the record keeping specified in section A.III.1.f. of these terms and conditions. If required, the permittee shall use U.S. EPA Method 18, 25 or 25A, as appropriate.

1.b Emission Limitation: 40 lbs OC/day

Applicable Compliance Method: Determination of daily OC emissions for all mold compounds and all wet mixes/preforms:

$$E_{OC} = [\text{summation of } (W_i_{MC}) \times EF] + \{\text{summation of } [(W_i_{WM}) + (W_i_{PF})] \times EF\}$$

Where the following applies:

E_{OC} = daily, OC emissions for all mold compounds and all wet mixes/preforms, , as required in the record keeping specified in section A.III.1.d., in pounds per day.

W_i_{MC} = the weight of mold compound "i" employed, in pounds per day.

W_i_{WM} = the weight of wet mix "i" employed, in pounds per day.

W_i_{PF} = the weight of preform "i" employed, in pounds per day.

EF = emission factor for styrene emissions from the mold presses, which is 0.00134 pounds per pound of mold compound or wet mix/preform, as determined from a Society of Plastics Industry report, "Styrene Emissions during the Charging and Molding Cycle".

1.c Emission Limitation: 7.3 TPY OC

Applicable Compliance Method: Compliance shall be based on the record keeping specified in section A.III.1.d. of these terms and conditions and shall be the sum of the daily OC emission rates for the calendar year divided by 2000 lbs/ton.

2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

Facility Name: **Molded Fiber Glass Companies, Composite Systems Co**
Facility ID: **02-04-01-0230**
Emissions Unit: **Molding Press #207 (P020)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Molding Press #208 (P021)
Activity Description: 450 Ton Molding Press

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Compression mold press #208 for fiberglass reinforced plastic parts	OAC rule 3745-21-07(G)(2)	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day. See section A.1.2.a.
	OAC rule 3745-31-05(A)(3) PTI 02-11578	OC emissions shall not exceed 7.3 tons/year.

2. Additional Terms and Conditions

- 2.a The OC emissions from the molding operations are comprised of styrene, a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each mold compound, each wet mix and each preform employed.
 - b. The number of pounds of each mold compound employed.
 - c. The number of pounds of each wet mix and each preform employed.
 - d. The total OC emission rate for all mold compounds and all wet mixes/preforms employed, in pounds per day.
 - e. The total number of hours the emissions unit was in operation.
 - f. The average hourly OC emission rate for all mold compounds and all wet mixes/preforms employed, i.e., (d)/(e), in pounds per hour (average).

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average hourly OC emissions from the mold compounds and the wet mixes/preforms exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - b. An identification of each day during which the OC emissions from the mold compounds and the wet mixes/preforms exceeded 40 pounds per day, and the actual OC emissions for each such day.
2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emissions limitation(s) in section A. I. 1. of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation: 8 lbs OC/hr

Applicable Compliance Method: Compliance shall be determined based upon the record keeping specified in section A.III.1.f. of these terms and conditions. If required, the permittee shall use U.S. EPA Method 18, 25 or 25A, as appropriate.

1.b Emission Limitation: 40 lbs OC/day

Applicable Compliance Method: Determination of daily OC emissions for all mold compounds and all wet mixes/preforms:

$$E_{OC} = [\text{summation of } (W_i_{MC}) \times EF] + \{\text{summation of } [(W_i_{WM}) + (W_i_{PF})] \times EF\}$$

Where the following applies:

E_{OC} = daily, OC emissions for all mold compounds and all wet mixes/preforms, as required in the record keeping specified in section A.III.1.d., in pounds per day.

W_i_{MC} = the weight of mold compound "i" employed, in pounds per day.

W_i_{WM} = the weight of wet mix "i" employed, in pounds per day.

W_i_{PF} = the weight of preform "i" employed, in pounds per day.

EF = emission factor for styrene emissions from the mold presses, which is 0.00134 pounds per pound of mold compound or wet mix/preform, as determined from a Society of Plastics Industry report, "Styrene Emissions during the Charging and Molding Cycle".

1.c Emission Limitation: 7.3 TPY OC

Applicable Compliance Method: Compliance shall be based on the record keeping specified in section A.III.1.d. of these terms and conditions and shall be the sum of the daily OC emission rates for the calendar year divided by 2000 lbs/ton.

2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

Facility Name: **Molded Fiber Glass Companies, Composite Systems Co**
Facility ID: **02-04-01-0230**
Emissions Unit: **Molding Press #208 (P021)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Molding Press #204 (P022)
Activity Description: 220 Ton Molding Press

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Compression mold press #204 for fiberglass reinforced plastic parts	OAC rule 3745-21-07(G)(2)	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day. See section A.1.2.a.
	OAC rule 3745-31-05(A)(3) PTI 02-11578	OC emissions shall not exceed 7.3 tons/year.

2. Additional Terms and Conditions

- 2.a The OC emissions from the molding operations are comprised of styrene, a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each mold compound, each wet mix and each preform employed.
 - b. The number of pounds of each mold compound employed.
 - c. The number of pounds of each wet mix and each preform employed.
 - d. The total OC emission rate for all mold compounds and all wet mixes/preforms employed, in pounds per day.
 - e. The total number of hours the emissions unit was in operation.
 - f. The average hourly OC emission rate for all mold compounds and all wet mixes/preforms employed, i.e., (d)/(e), in pounds per hour (average).

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average hourly OC emissions from the mold compounds and the wet mixes/preforms exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - b. An identification of each day during which the OC emissions from the mold compounds and the wet mixes/preforms exceeded 40 pounds per day, and the actual OC emissions for each such day.
2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emissions limitation(s) in section A. I. 1. of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation: 8 lbs OC/hr

Applicable Compliance Method: Compliance shall be determined based upon the record keeping specified in section A.III.1.f. of these terms and conditions. If required, the permittee shall use U.S. EPA Method 18, 25 or 25A, as appropriate.

1.b Emission Limitation: 40 lbs OC/day

Applicable Compliance Method: Determination of daily OC emissions for all mold compounds and all wet mixes/preforms:

$$E_{OC} = [\text{summation of } (W_i_{MC}) \times EF] + \{\text{summation of } [(W_i_{WM}) + (W_i_{PF})] \times EF\}$$

Where the following applies:

E_{OC} = daily, OC emissions for all mold compounds and all wet mixes/preforms, as required in the record keeping specified in section A.III.1.d., in pounds per day.

W_i_{MC} = the weight of mold compound "i" employed, in pounds per day.

W_i_{WM} = the weight of wet mix "i" employed, in pounds per day.

W_i_{PF} = the weight of preform "i" employed, in pounds per day.

EF = emission factor for styrene emissions from the mold presses, which is 0.00134 pounds per pound of mold compound or wet mix/preform, as determined from a Society of Plastics Industry report, "Styrene Emissions during the Charging and Molding Cycle".

1.c Emission Limitation: 7.3 TPY OC

Applicable Compliance Method: Compliance shall be based on the record keeping specified in section A.III.1.d. of these terms and conditions and shall be the sum of the daily OC emission rates for the calendar year divided by 2000 lbs/ton.

2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

Facility Name: **Molded Fiber Glass Companies, Composite Systems Co**
Facility ID: **02-04-01-0230**
Emissions Unit: **Molding Press #204 (P022)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Molding Press #205 (P023)
Activity Description: 220 Ton Molding Press

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Compression mold press #205 for fiberglass reinforced plastic parts	OAC rule 3745-21-07(G)(2)	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day. See section A.1.2.a.
	OAC rule 3745-31-05(A)(3) PTI 02-11578	OC emissions shall not exceed 7.3 tons/year.

2. Additional Terms and Conditions

- 2.a The OC emissions from the molding operations are comprised of styrene, a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each mold compound, each wet mix and each preform employed.
 - b. The number of pounds of each mold compound employed.
 - c. The number of pounds of each wet mix and each preform employed.
 - d. The total OC emission rate for all mold compounds and all wet mixes/preforms employed, in pounds per day.
 - e. The total number of hours the emissions unit was in operation.
 - f. The average hourly OC emission rate for all mold compounds and all wet mixes/preforms employed, i.e., (d)/(e), in pounds per hour (average).

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average hourly OC emissions from the mold compounds and the wet mixes/preforms exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - b. An identification of each day during which the OC emissions from the mold compounds and the wet mixes/preforms exceeded 40 pounds per day, and the actual OC emissions for each such day.
2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emissions limitation(s) in section A. I. 1. of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation: 8 lbs OC/hr

Applicable Compliance Method: Compliance shall be determined based upon the record keeping specified in section A.III.1.f. of these terms and conditions. If required, the permittee shall use U.S. EPA Method 18, 25 or 25A, as appropriate.

1.b Emission Limitation: 40 lbs OC/day

Applicable Compliance Method: Determination of daily OC emissions for all mold compounds and all wet mixes/preforms:

$$E_{OC} = [\text{summation of } (W_i_{MC}) \times EF] + \{\text{summation of } [(W_i_{WM}) + (W_i_{PF})] \times EF\}$$

Where the following applies:

E_{OC} = daily, OC emissions for all mold compounds and all wet mixes/preforms, as required in the record keeping specified in section A.III.1.d., in pounds per day.

W_i_{MC} = the weight of mold compound "i" employed, in pounds per day.

W_i_{WM} = the weight of wet mix "i" employed, in pounds per day.

W_i_{PF} = the weight of preform "i" employed, in pounds per day.

EF = emission factor for styrene emissions from the mold presses, which is 0.00134 pounds per pound of mold compound or wet mix/preform, as determined from a Society of Plastics Industry report, "Styrene Emissions during the Charging and Molding Cycle".

1.c Emission Limitation: 7.3 TPY OC

Applicable Compliance Method: Compliance shall be based on the record keeping specified in section A.III.1.d. of these terms and conditions and shall be the sum of the daily OC emission rates for the calendar year divided by 2000 lbs/ton.

2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

Facility Name: **Molded Fiber Glass Companies, Composite Systems Co**
Facility ID: **02-04-01-0230**
Emissions Unit: **Molding Press #205 (P023)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Molding Press #219 (P024)
Activity Description: 227 Ton Molding Press

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Compression mold press #219 for fiberglass reinforced plastic parts	OAC rule 3745-21-07(G)(2)	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day. See section A.1.2.a.
	OAC rule 3745-31-05(A)(3) PTI 02-11578	OC emissions shall not exceed 7.3 tons/year.

2. Additional Terms and Conditions

- 2.a The OC emissions from the molding operations are comprised of styrene, a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each mold compound, each wet mix and each preform employed.
 - b. The number of pounds of each mold compound employed.
 - c. The number of pounds of each wet mix and each preform employed.
 - d. The total OC emission rate for all mold compounds and all wet mixes/preforms employed, in pounds per day.
 - e. The total number of hours the emissions unit was in operation.
 - f. The average hourly OC emission rate for all mold compounds and all wet mixes/preforms employed, i.e., (d)/(e), in pounds per hour (average).

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average hourly OC emissions from the mold compounds and the wet mixes/preforms exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - b. An identification of each day during which the OC emissions from the mold compounds and the wet mixes/preforms exceeded 40 pounds per day, and the actual OC emissions for each such day.
2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emissions limitation(s) in section A. I. 1. of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation: 8 lbs OC/hr

Applicable Compliance Method: Compliance shall be determined based upon the record keeping specified in section A.III.1.f. of these terms and conditions. If required, the permittee shall use U.S. EPA Method 18, 25 or 25A, as appropriate.

1.b Emission Limitation: 40 lbs OC/day

Applicable Compliance Method: Determination of daily OC emissions for all mold compounds and all wet mixes/preforms:

$$E_{OC} = [\text{summation of } (W_i_{MC}) \times EF] + \{\text{summation of } [(W_i_{WM}) + (W_i_{PF})] \times EF\}$$

Where the following applies:

E_{OC} = daily, OC emissions for all mold compounds and all wet mixes/preforms, as required in the record keeping specified in section A.III.1.d., in pounds per day.

W_i_{MC} = the weight of mold compound "i" employed, in pounds per day.

W_i_{WM} = the weight of wet mix "i" employed, in pounds per day.

W_i_{PF} = the weight of preform "i" employed, in pounds per day.

EF = emission factor for styrene emissions from the mold presses, which is 0.00134 pounds per pound of mold compound or wet mix/preform, as determined from a Society of Plastics Industry report, "Styrene Emissions during the Charging and Molding Cycle".

1.c Emission Limitation: 7.3 TPY OC

Applicable Compliance Method: Compliance shall be based on the record keeping specified in section A.III.1.d. of these terms and conditions and shall be the sum of the daily OC emission rates for the calendar year divided by 2000 lbs/ton.

2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

Facility Name: **Molded Fiber Glass Companies, Composite Systems Co**
Facility ID: **02-04-01-0230**
Emissions Unit: **Molding Press #219 (P024)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Molding Press #220 (P025)
Activity Description: 75 Ton Molding Press

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Compression mold press #220 for fiberglass reinforced plastic parts	OAC rule 3745-21-07(G)(2)	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day. See section A.1.2.a.
	OAC rule 3745-31-05(A)(3) PTI 02-11578	OC emissions shall not exceed 7.3 tons/year.

2. Additional Terms and Conditions

- 2.a The OC emissions from the molding operations are comprised of styrene, a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each mold compound, each wet mix and each preform employed.
 - b. The number of pounds of each mold compound employed.
 - c. The number of pounds of each wet mix and each preform employed.
 - d. The total OC emission rate for all mold compounds and all wet mixes/preforms employed, in pounds per day.
 - e. The total number of hours the emissions unit was in operation.
 - f. The average hourly OC emission rate for all mold compounds and all wet mixes/preforms employed, i.e., (d)/(e), in pounds per hour (average).

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average hourly OC emissions from the mold compounds and the wet mixes/preforms exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - b. An identification of each day during which the OC emissions from the mold compounds and the wet mixes/preforms exceeded 40 pounds per day, and the actual OC emissions for each such day.
2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emissions limitation(s) in section A. I. 1. of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation: 8 lbs OC/hr

Applicable Compliance Method: Compliance shall be determined based upon the record keeping specified in section A.III.1.f. of these terms and conditions. If required, the permittee shall use U.S. EPA Method 18, 25 or 25A, as appropriate.

1.b Emission Limitation: 40 lbs OC/day

Applicable Compliance Method: Determination of daily OC emissions for all mold compounds and all wet mixes/preforms:

$$E_{OC} = [\text{summation of } (W_i_{MC}) \times EF] + \{\text{summation of } [(W_i_{WM}) + (W_i_{PF})] \times EF\}$$

Where the following applies:

E_{OC} = daily, OC emissions for all mold compounds and all wet mixes/preforms, as required in the record keeping specified in section A.III.1.d., in pounds per day.

W_i_{MC} = the weight of mold compound "i" employed, in pounds per day.

W_i_{WM} = the weight of wet mix "i" employed, in pounds per day.

W_i_{PF} = the weight of preform "i" employed, in pounds per day.

EF = emission factor for styrene emissions from the mold presses, which is 0.00134 pounds per pound of mold compound or wet mix/preform, as determined from a Society of Plastics Industry report, "Styrene Emissions during the Charging and Molding Cycle".

1.c Emission Limitation: 7.3 TPY OC

Applicable Compliance Method: Compliance shall be based on the record keeping specified in section A.III.1.d. of these terms and conditions and shall be the sum of the daily OC emission rates for the calendar year divided by 2000 lbs/ton.

2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

Facility Name: **Molded Fiber Glass Companies, Composite Systems Co**
Facility ID: **02-04-01-0230**
Emissions Unit: **Molding Press #220 (P025)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Mixer #1 (P026)
Activity Description: Mixer

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Cowles mixer #1 for resin wet mix & SMC paste	OAC rule 3745-17-07(A)	Visible particulate emissions from this emissions unit shall not exceed 20% opacity as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-11	Particulate emissions (PE) shall not exceed 4.06 lbs/hr. See section A.1.2.a.
	OAC rule 3745-21-07(G)(2)	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day, excluding emissions from non-photochemically reactive cleanup materials. See section A.1.2.b.
	OAC rule 3745-31-05(A)(3) PTI 02-11578	The PE rate shall not exceed 1.97 lbs/hr and 8.63 tons/year. OC emissions shall not exceed 7.3 tons/year, including emissions from cleanup materials.

2. Additional Terms and Conditions

- 2.a The hourly emissions limit based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).
- 2.b The OC emissions from the mix operations consist of styrene, a photochemically reactive material as defined in OAC rule 3745-21-01(C)(5).

II. Operational Restrictions

1. The permittee shall operate the settling chamber particulate control system whenever this emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain a weekly log of cleanings and of inspections of the physical integrity of the settling chamber.

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall properly operate the settling chamber and check it at least once per day when the emissions unit is in operation. The permittee shall record each day all periods of time during which the settling chamber was not in operation when the emissions unit was in operation.
3. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each mold compound and mix manufactured and each cleanup material employed.
 - b. Identification of whether or not each cleanup material employed is a photochemically reactive material, as defined in OAC rule 3745-21-01(C).
 - c. The number of pounds of each mold compound and mix manufactured.
 - d. The organic compound content of each mold compound and each mix manufactured, in percent by weight.
 - e. The volume of each cleanup material dispensed, in gallons per day.
 - f. The volume of each cleanup material returned, in gallons per day.
 - g. The volume of each evaporated cleanup material, which is estimated by subtracting the volume of returned cleanup material from the volume of dispensed cleanup material, in gallons per day.
 - h. The organic compound content of each cleanup material, in pounds per gallon.
 - i. The total organic compound emission rate for all mold compounds, mixes and photochemically reactive cleanup materials, in pounds per day.
 - j. The total number of hours the emissions unit was in operation.
 - k. The average hourly organic compound emission rate for all mold compounds, mixes and photochemically reactive cleanup materials, i. e., (i)/(j), in pounds per hour.
 - l. The total organic compound emission rate for all mold compounds, mixes and cleanup materials, in pounds per day.

IV. Reporting Requirements

1. The permittee shall notify the Northeast District Office in writing of any daily record showing that the settling chamber was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Northeast District Office within 30 days after the event occurs.
2. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. an identification of each day during which the average hourly OC emissions from the mixes, mold compounds and photochemically reactive cleanup materials exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day; and
 - b. an identification of each day during which the OC emissions from the mixes, mold compounds and photochemically reactive cleanup materials exceeded 40 pounds per day, and the actual OC emissions for each such day.
3. The permittee shall submit annual reports which specify the total OC and particulate emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emissions limitation(s) in section A.I.1. of these terms and conditions shall be determined in accordance with the following method(s):

V. Testing Requirements (continued)

1.a Emission Limitation: 20% opacity of visible particulate emissions

Applicable Compliance Method: Compliance shall be determined based upon OAC rule 3745-17-03(B)(1), if required by Ohio EPA.

1.b Emission Limitation: 4.06 lbs PE/hr

Applicable Compliance Method(s): To determine the actual worst case PE rate, the following equation shall be used:

$$E_{PE} = P \times DS \times EF \times (1 - CE)$$

Where the following applies:

E_{PE} = PE, in pounds per hour

P = maximum production rate, which is 3200 pounds per hour as noted in the permit application.

DS = maximum dry solids content, which is 61.6% by weight as noted in the application.

EF = emission factor for uncontrolled PE, which is 0.01 pound of uncontrolled PE per pound of dry solid material processed, as noted in AP-42 chapter 6.4 (5/83).

CE = control efficiency of PE control device, which is 90% as noted in the permit application.

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests, performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5.

1.c Emission Limitation: 8.63 tons PE/year.

Applicable Compliance Method: To determine the actual, annual worst case PE rate, the worst case hourly rate, as determined from the equation as noted in section A.V.1. b., is multiplied by 8760 hours per year and divided by 2000 lbs per ton.

1.d Emission Limitation: 8 lbs OC/hr, excluding emissions from non-photochemically reactive cleanup materials.

Applicable Compliance Method: Compliance shall be determined based upon the record keeping specified in section A. III.3.k. If required, the permittee shall use U.S. EPA Method 18, 25 or 25A, as appropriate.

V. Testing Requirements (continued)

- 1.e** Emission Limitation: 40 lbs OC/day, excluding emissions from non-photochemically reactive cleanup materials.

Applicable Compliance Methods: Compliance shall be determined based upon the following equations:

- i. Determination of OC emissions for all mold compounds and mixes:

$$E(\text{mix}) = \text{summation of } (W_i \times OC_i) \times EF$$

Where the following applies:

$$E(\text{mix}) = \text{OC emissions from the mix operations, in pounds per day.}$$

W_i = the weight of mold compound or mix "i" produced, in pounds per day.

OC_i = the OC content of mold compound or mix "i", in per cent by weight.

EF = the emission factor for OC emissions, which is 0.01 pound per pound of available OC content, as noted in AP-42 chapter 6.4 (5/83).

- ii. Determination of OC emissions for all photochemically reactive cleanup materials:

$$E(\text{cleanup_pcr}) = \text{summation of } (V_i \times OC_i)$$

Where the following applies:

$$E(\text{cleanup_pcr}) = \text{OC emissions from photochemically reactive cleanup materials, in pounds per day.}$$

V_i = the volume of evaporated photochemically reactive cleanup material "i", as specified in section A.III.3.g., in gallons per day.

OC_i = the OC content of cleanup material "i", in per pounds per gallon.

- iii. Determination of OC emissions for all mold compounds, mixes and photochemically reactive cleanup materials, as specified in section A.III.3.i.:

$$E(\text{pcr}) = E(\text{mix}) + E(\text{cleanup_pcr}).$$

- 1.f** Emission Limitation: 7.3 TPY OC, including emissions from cleanup materials.

Applicable Compliance Method: Compliance shall be based on the sum of the daily OC emission rate from mixes, mold compounds and cleanup materials, $E(\text{OC})$, as specified in section A.III.3.l. of this permit for the calendar year, divided by 2000 pounds/ton.

- 2.** Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 120" Preform Machine and Oven (P027)
Activity Description: 120" Preform Machine and Oven

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
120" preform machine with a natural gas fired cure oven for fiberglass reinforced plastic parts:	OAC rule 3745-17-07(A)	Visible particulate emissions from this emissions unit shall not exceed 20% opacity as a 6-minute average, except as specified by rule.
binder mix spray-up operation	OAC rule 3745-17-11	Particulate emissions (PE) shall not exceed 1.26 lbs/hr.
	OAC rule 3745-21-07(G)(2)	See A.I.2.a. below.
cure oven	OAC rule 3745-21-07(G)(1)	Organic compound (OC) emissions shall not exceed 3 lbs/hr and 15 lbs/day from binder usage.
	OAC rule 3745-31-05(A)(3) PTI 02-8904	Carbon monoxide (CO) emissions shall not exceed 0.25 lb/hr and 1.10 tons/year from fuel combustion. Nitrogen oxides (NOx) emissions shall not exceed 0.29 lb/hr and 1.27 tons/year from fuel combustion.
binder mix spray-up operation and cure oven	OAC rule 3745-31-05(A)(3) PTI 02-8904	Particulate emissions (PE) shall not exceed 5.78 tons/year from the spray-up operation and fuel combustion. OC emissions shall not exceed 21.9 lbs/day from binder usage. OC emissions shall not exceed 4.14 tons/year from binder usage and fuel combustion.

2. Additional Terms and Conditions

- This emissions unit is exempt from the organic compound emission limitations specified in OAC rule 3745-21-07(G)(2) because the use of photochemically reactive materials is prohibited.

II. Operational Restrictions

- The permittee shall burn only natural gas in this emissions unit.
- The permittee shall operate the wire mesh screen whenever this emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. For purposes of calculating the OC emission rates for this emissions unit, the permittee shall utilize a value of 32.2% as the maximum percentage of the OCs emitted at the spray-up exhaust that are emitted uncontrolled from the spray-up operations. The remaining 67.8% of the OCs employed at the spray-up operation, shall be considered to be the uncontrolled emissions for the cure oven. This "split" of OC emissions between the spray-up operation and the cure oven is based upon in-house testing and engineering estimates conducted on July 7, 1994.
2. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each binder mix employed.
 - b. Identification of whether or not each binder mix employed is a photochemically reactive material, as defined in OAC rule 3745-21-01(C).
 - c. The weight of each binder mix employed, in pounds per day.
 - d. The organic compound content of each binder mix, in percent by weight.
 - e. The total potential (prior to applying the spray-up/oven "split") daily OC emission rate for all binder mixes, in pounds per day.
 - f. The total potential daily OC emission rate for all binder mixes multiplied by the maximum percentage of the emissions associated with the cure oven (as defined in section A.III.1. of this permit)), in pounds per day.
 - g. The total number of hours the emissions unit was in operation.
 - h. The average hourly OC emission rate for the binder mixes from the cure oven, i.e., (f)/(g), in pounds per hour (average).
3. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
4. The permittee shall maintain a weekly log of cleanings and of inspections of the physical integrity of the wire mesh screen.
5. The permittee shall properly operate the wire mesh screen and check it at least once per day when the emissions unit is in operation. The permittee shall record each day all periods of time during which the wire mesh screen was not in operation when the emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day during which the average hourly OC emissions from binder usage at the cure oven exceeded 3 pounds per hour, and the actual average hourly OC emissions for each such day;
 - b. an identification of each day during which the OC emissions from binder usage at the cure oven exceeded 15 pounds per day, and the actual OC emissions for each such day;
 - c. an identification of each day during which the OC emissions from binder usage at the spray-up operation and the cure oven exceeded 21.9 pounds per day, and the actual OC emissions for each such day;
 - d. an identification of each day that photochemically reactive binder materials were employed at the spray-up operation; and
 - e. an identification of each day when a fuel other than natural gas was burned in this emissions unit.

IV. Reporting Requirements (continued)

2. The permittee shall notify the Northeast District Office in writing of any daily record showing that the wire mesh screen was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Northeast District Office within 30 days after the event occurs.
3. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the allowable emission limitations in section A.I.1. of these terms and conditions shall be determined in accordance with the following methods:

- 1.a Emission Limitation: 20% opacity of visible particulate emissions from the spray-up operation.

Applicable Compliance Method: Compliance shall be determined based upon OAC rule 3745-17-03(B)(1), if required by Ohio EPA.

- 1.b Emission Limitation: 1.26 lb PE/hr from the spray-up operation.

Applicable Compliance Method(s):

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests, performed accordance with 40 CFR Part 60, Appendix A, Methods 1-5.

- 1.c Emission Limitation: 5.78 TPY PE from the spray-up operation and fuel combustion at the cure oven.

Applicable Compliance Method: To determine the actual, annual worst case PE rate (E_{APE}), in tons per year, the following equation shall be used:

$$E_{APE} = [(Q \times EF) + E_{HPE}] \times 8760 \text{ hrs/yr} \times \text{ton}/2000 \text{ lbs.}$$

Where the following applies:

Q = maximum natural gas fuel inflow rate, 3000 cf/hr as noted in the permit application.

E_{HPE} = hourly PE rate from the spray-up operation, which is 1.26 pounds per hour, as specified in section A.V.1.b.

EF = emission factor for filterable PE, which is 1.9 lbs PE/1,000,000 cf of natural gas as noted in AP-42, chapter 1.4 (7/98).

- 1.d Emission Limitation: 3 lbs OC/hr from binder usage at the cure oven.

Applicable Compliance Method: Compliance shall be demonstrated in accordance with the record keeping requirements specified in section A.III.2.h.

- 1.e Emission Limitation: 15 lbs OC/day from binder usage at the cure oven.

Applicable Compliance Method: Compliance shall be demonstrated in accordance with the record keeping requirements specified in section A.III.2.f.

- 1.f Emission Limitation: 21.9 lbs OC/day from binder usage from the spray-up operations and the cure oven.

Applicable Compliance Method: Compliance shall be demonstrated in accordance with the record keeping requirements specified in section A.III.2.e.

V. Testing Requirements (continued)

1.g Emission Limitation: 4.15 TPY OC from binder usage and fuel combustion.

Applicable Compliance Method: Compliance shall be based on the following:

i. Determination of the annual OC emission rate from binder usage, EY_OC_b, shall be the sum of the daily OC emissions rates from binder usage, as specified in section A.III.2.e. of this permit for the calendar year, and divided by 2000 pounds/ton.

ii. Determination of the actual, annual worst case OC emission rate from fuel combustion, EY_OC_f, shall be made with the following equation:

$$EY_OC_f = Q \times EF \times 8760 \text{ hrs/year} \times \text{ton}/2000 \text{ lbs.}$$

Where the following applies:

EY_OC_f = OC emissions, in tons/year.

Q = maximum natural gas fuel inflow rate, 3000 cf/hr as noted in the permit application.

EF = emission factor for total OC, which is 11 lbs OC/1,000,000 cf of natural gas as noted in AP-42, chapter 1.4 (7/98).

iii. Determination of total, annual OC emissions, EY_OC_t shall be made with the following equation:

$$EY_OC_t = EY_OC_b + EY_OC_f.$$

1.h Emission Limitation: 0.25 lb/hr of CO emissions from fuel combustion at the cure oven.

Applicable Compliance Method: To determine the actual, hourly worst case CO emission rate the following equation shall be used:

$$E_CO = Q \times EF.$$

Where the following applies:

E_CO = CO emissions, in pound per hour.

EF = emission factor for CO, which is 84 lbs CO/1,000,000 cf of natural gas as noted in AP-42, chapter 1.4 (7/98).

1.i Emission Limitation: 1.10 TPY CO emissions from fuel combustion at the cure oven.

Applicable Compliance Method: To determine the actual, annual worst case CO emission rate (E_ACO) in tons per year, the following equation shall be used:

$$E_ACO = E_CO \times 8760 \text{ hrs/yr} \times \text{ton}/2000 \text{ lbs.}$$

1.j Emission Limitation: 0.29 lb/hr NO_x emissions from fuel combustion at the cure oven.

Applicable Compliance Method: To determine the actual, hourly worst case NO_x emission rate the following equation shall be used:

$$E_NO_x = Q \times EF.$$

Where the following applies:

E_NO_x = NO_x emissions, in pounds per hour.

Q = maximum natural gas fuel inflow rate, 3000 cf/hr as noted in the permit application.

EF = emission factor for NO_x, which is 100 lbs CO/1,000,000 cf of natural gas as noted in AP-42, chapter 1.4 (7/98).

V. Testing Requirements (continued)

- 1.k** Emission Limitation: 1.27 TPY NO_x emissions from fuel combustion at the cure oven.

Applicable Compliance Method: To determine the actual, annual worst case NO_x emission rate (E_NO_x) in tons per year, the following equation shall be used:

$$E_{\text{ANO}_x} = E_{\text{NO}_x} \times 8760 \text{ hrs/yr} \times \text{ton}/2000 \text{ lbs.}$$

- 2.** Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Mixer #2 (P028)
Activity Description: Mixer

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Cowles mixer #2 for resin wet mix & SMC paste	OAC rule 3745-17-07(A)	Visible particulate emissions from this emissions unit shall not exceed 20% opacity as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-11	Particulate emissions (PE) shall not exceed 4.06 lbs/hr. See section A.1.2.a.
	OAC rule 3745-21-07(G)(2)	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day, excluding emissions from non-photochemically reactive cleanup materials. See section A.1.2.b.
	OAC rule 3745-31-05(A)(3) PTI 02-11578	The PE rate shall not exceed 1.97 lbs/hr and 8.63 tons/year. OC emissions shall not exceed 7.3 tons/year, including emissions from cleanup materials.

2. Additional Terms and Conditions

- 2.a The hourly emissions limit based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).
- 2.b The OC emissions from the mix operations consist of styrene, a photochemically reactive material as defined in OAC rule 3745-21-01(C)(5).

II. Operational Restrictions

1. The permittee shall operate the settling chamber particulate control system whenever this emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain a weekly log of cleanings and of inspections of the physical integrity of the settling chamber.

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall properly operate the settling chamber and check it at least once per day when the emissions unit is in operation. The permittee shall record each day all periods of time during which the settling chamber was not in operation when the emissions unit was in operation.
3. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each mold compound and mix manufactured and each cleanup material employed.
 - b. Identification of whether or not each cleanup material employed is a photochemically reactive material, as defined in OAC rule 3745-21-01(C).
 - c. The number of pounds of each mold compound and mix manufactured.
 - d. The organic compound content of each mold compound and each mix manufactured, in percent by weight.
 - e. The volume of each cleanup material dispensed, in gallons per day.
 - f. The volume of each cleanup material returned, in gallons per day.
 - g. The volume of each evaporated cleanup material, which is estimated by subtracting the volume of returned cleanup material from the volume of dispensed cleanup material, in gallons per day.
 - h. The organic compound content of each cleanup material, in pounds per gallon.
 - i. The total organic compound emission rate for all mold compounds, mixes and photochemically reactive cleanup materials, in pounds per day.
 - j. The total number of hours the emissions unit was in operation.
 - k. The average hourly organic compound emission rate for all mold compounds, mixes and photochemically reactive cleanup materials, i. e., (i)/(j), in pounds per hour.
 - l. The total organic compound emission rate for all mold compounds, mixes and cleanup materials, in pounds per day.

IV. Reporting Requirements

1. The permittee shall notify the Northeast District Office in writing of any daily record showing that the settling chamber was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Northeast District Office within 30 days after the event occurs.
2. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. an identification of each day during which the average hourly OC emissions from the mixes, mold compounds and photochemically reactive cleanup materials exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day; and
 - b. an identification of each day during which the OC emissions from the mixes, mold compounds and photochemically reactive cleanup materials exceeded 40 pounds per day, and the actual OC emissions for each such day.
3. The permittee shall submit annual reports which specify the total OC and particulate emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emissions limitation(s) in section A.I.1. of these terms and conditions shall be determined in accordance with the following method(s):

V. Testing Requirements (continued)

1.a Emission Limitation: 20% opacity of visible particulate emissions

Applicable Compliance Method: Compliance shall be determined based upon OAC rule 3745-17-03(B)(1), if required by Ohio EPA.

1.b Emission Limitation: 4.06 lbs PE/hr

Applicable Compliance Method(s): To determine the actual worst case PE rate, the following equation shall be used:

$$E_{PE} = P \times DS \times EF \times (1 - CE)$$

Where the following applies:

E_{PE} = PE, in pounds per hour

P = maximum production rate, which is 3200 pounds per hour as noted in the permit application.

DS = maximum dry solids content, which is 61.6% by weight as noted in the application.

EF = emission factor for uncontrolled PE, which is 0.01 pound of uncontrolled PE per pound of dry solid material processed, as noted in AP-42 chapter 6.4 (5/83).

CE = control efficiency of PE control device, which is 90% as noted in the permit application.

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests, performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5.

1.c Emission Limitation: 8.63 tons PE/year.

Applicable Compliance Method: To determine the actual, annual worst case PE rate, the worst case hourly rate, as determined from the equation as noted in section A.V.1. b., is multiplied by 8760 hours per year and divided by 2000 lbs per ton.

1.d Emission Limitation: 8 lbs OC/hr, excluding emissions from non-photochemically reactive cleanup materials.

Applicable Compliance Method: Compliance shall be determined based upon the record keeping specified in section A. III.3.k. If required, the permittee shall use U.S. EPA Method 18, 25 or 25A, as appropriate.

V. Testing Requirements (continued)

- 1.e** Emission Limitation: 40 lbs OC/day, excluding emissions from non-photochemically reactive cleanup materials.

Applicable Compliance Methods: Compliance shall be determined based upon the following equations:

- i. Determination of OC emissions for all mold compounds and mixes:

$$E(\text{mix}) = \text{summation of } (W_i \times OC_i) \times EF$$

Where the following applies:

$$E(\text{mix}) = \text{OC emissions from the mix operations, in pounds per day.}$$

W_i = the weight of mold compound or mix "i" produced, in pounds per day.

OC_i = the OC content of mold compound or mix "i", in per cent by weight.

EF = the emission factor for OC emissions, which is 0.01 pound per pound of available OC content, as noted in AP-42 chapter 6.4 (5/83).

- ii. Determination of OC emissions for all photochemically reactive cleanup materials:

$$E(\text{cleanup_pcr}) = \text{summation of } (V_i \times OC_i)$$

Where the following applies:

$$E(\text{cleanup_pcr}) = \text{OC emissions from photochemically reactive cleanup materials, in pounds per day.}$$

V_i = the volume of evaporated photochemically reactive cleanup material "i", as specified in section A.III.3.g., in gallons per day.

OC_i = the OC content of cleanup material "i", in per pounds per gallon.

- iii. Determination of OC emissions for all mold compounds, mixes and photochemically reactive cleanup materials, as specified in section A.III.3.i.:

$$E(\text{pcr}) = E(\text{mix}) + E(\text{cleanup_pcr}).$$

- 1.f** Emission Limitation: 7.3 TPY OC, including emissions from cleanup materials.

Applicable Compliance Method: Compliance shall be based on the sum of the daily OC emission rate from mixes, mold compounds and cleanup materials, $E(OC)$, as specified in section A.III.3.l. of this permit for the calendar year, divided by 2000 pounds/ton.

- 2.** Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Mixer #3 (P029)
Activity Description: Mixer

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Cowles mixer #3 for resin wet mix & SMC paste	OAC rule 3745-17-07(A)	Visible particulate emissions from this emissions unit shall not exceed 20% opacity as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-11	Particulate emissions (PE) shall not exceed 4.06 lbs/hr. See section A.1.2.a.
	OAC rule 3745-21-07(G)(2)	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day, excluding emissions from non-photochemically reactive cleanup materials. See section A.1.2.b.
	OAC rule 3745-31-05(A)(3) PTI 02-11578	The PE rate shall not exceed 1.97 lbs/hr and 8.63 tons/year. OC emissions shall not exceed 7.3 tons/year, including emissions from cleanup materials.

2. Additional Terms and Conditions

- 2.a The hourly emissions limit based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).
- 2.b The OC emissions from the mix operations consist of styrene, a photochemically reactive material as defined in OAC rule 3745-21-01(C)(5).

II. Operational Restrictions

1. The permittee shall operate the settling chamber particulate control system whenever this emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain a weekly log of cleanings and of inspections of the physical integrity of the settling chamber.

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall properly operate the settling chamber and check it at least once per day when the emissions unit is in operation. The permittee shall record each day all periods of time during which the settling chamber was not in operation when the emissions unit was in operation.
3. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each mold compound and mix manufactured and each cleanup material employed.
 - b. Identification of whether or not each cleanup material employed is a photochemically reactive material, as defined in OAC rule 3745-21-01(C).
 - c. The number of pounds of each mold compound and mix manufactured.
 - d. The organic compound content of each mold compound and each mix manufactured, in percent by weight.
 - e. The volume of each cleanup material dispensed, in gallons per day.
 - f. The volume of each cleanup material returned, in gallons per day.
 - g. The volume of each evaporated cleanup material, which is estimated by subtracting the volume of returned cleanup material from the volume of dispensed cleanup material, in gallons per day.
 - h. The organic compound content of each cleanup material, in pounds per gallon.
 - i. The total organic compound emission rate for all mold compounds, mixes and photochemically reactive cleanup materials, in pounds per day.
 - j. The total number of hours the emissions unit was in operation.
 - k. The average hourly organic compound emission rate for all mold compounds, mixes and photochemically reactive cleanup materials, i. e., (i)/(j), in pounds per hour.
 - l. The total organic compound emission rate for all mold compounds, mixes and cleanup materials, in pounds per day.

IV. Reporting Requirements

1. The permittee shall notify the Northeast District Office in writing of any daily record showing that the settling chamber was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Northeast District Office within 30 days after the event occurs.
2. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. an identification of each day during which the average hourly OC emissions from the mixes, mold compounds and photochemically reactive cleanup materials exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day; and
 - b. an identification of each day during which the OC emissions from the mixes, mold compounds and photochemically reactive cleanup materials exceeded 40 pounds per day, and the actual OC emissions for each such day.
3. The permittee shall submit annual reports which specify the total OC and particulate emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emissions limitation(s) in section A.I.1. of these terms and conditions shall be determined in accordance with the following method(s):

V. Testing Requirements (continued)

1.a Emission Limitation: 20% opacity of visible particulate emissions

Applicable Compliance Method: Compliance shall be determined based upon OAC rule 3745-17-03(B)(1), if required by Ohio EPA.

1.b Emission Limitation: 4.06 lbs PE/hr

Applicable Compliance Method(s): To determine the actual worst case PE rate, the following equation shall be used:

$$E_{PE} = P \times DS \times EF \times (1 - CE)$$

Where the following applies:

E_{PE} = PE, in pounds per hour

P = maximum production rate, which is 3200 pounds per hour as noted in the permit application.

DS = maximum dry solids content, which is 61.6% by weight as noted in the application.

EF = emission factor for uncontrolled PE, which is 0.01 pound of uncontrolled PE per pound of dry solid material processed, as noted in AP-42 chapter 6.4 (5/83).

CE = control efficiency of PE control device, which is 90% as noted in the permit application.

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests, performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5.

1.c Emission Limitation: 8.63 tons PE/year.

Applicable Compliance Method: To determine the actual, annual worst case PE rate, the worst case hourly rate, as determined from the equation as noted in section A.V.1. b., is multiplied by 8760 hours per year and divided by 2000 lbs per ton.

1.d Emission Limitation: 8 lbs OC/hr, excluding emissions from non-photochemically reactive cleanup materials.

Applicable Compliance Method: Compliance shall be determined based upon the record keeping specified in section A. III.3.k. If required, the permittee shall use U.S. EPA Method 18, 25 or 25A, as appropriate.

V. Testing Requirements (continued)

- 1.e** Emission Limitation: 40 lbs OC/day, excluding emissions from non-photochemically reactive cleanup materials.

Applicable Compliance Methods: Compliance shall be determined based upon the following equations:

- i. Determination of OC emissions for all mold compounds and mixes:

$$E(\text{mix}) = \text{summation of } (W_i \times OC_i) \times EF$$

Where the following applies:

$$E(\text{mix}) = \text{OC emissions from the mix operations, in pounds per day.}$$

W_i = the weight of mold compound or mix "i" produced, in pounds per day.

OC_i = the OC content of mold compound or mix "i", in per cent by weight.

EF = the emission factor for OC emissions, which is 0.01 pound per pound of available OC content, as noted in AP-42 chapter 6.4 (5/83).

- ii. Determination of OC emissions for all photochemically reactive cleanup materials:

$$E(\text{cleanup_pcr}) = \text{summation of } (V_i \times OC_i)$$

Where the following applies:

$$E(\text{cleanup_pcr}) = \text{OC emissions from photochemically reactive cleanup materials, in pounds per day.}$$

V_i = the volume of evaporated photochemically reactive cleanup material "i", as specified in section A.III.3.g., in gallons per day.

OC_i = the OC content of cleanup material "i", in per pounds per gallon.

- iii. Determination of OC emissions for all mold compounds, mixes and photochemically reactive cleanup materials, as specified in section A.III.3.i.:

$$E(\text{pcr}) = E(\text{mix}) + E(\text{cleanup_pcr}).$$

- 1.f** Emission Limitation: 7.3 TPY OC, including emissions from cleanup materials.

Applicable Compliance Method: Compliance shall be based on the sum of the daily OC emission rate from mixes, mold compounds and cleanup materials, $E(OC)$, as specified in section A.III.3.l. of this permit for the calendar year, divided by 2000 pounds/ton.

- 2.** Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Molding Press #226 (P030)
Activity Description: 1500 Ton Molding Press

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Compression mold press #226 for fiberglass reinforced plastic parts	OAC rule 3745-21-07(G)(2)	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day. See section A.1.2.a.
	OAC rule 3745-31-05(A)(3) PTI 02-11578	OC emissions shall not exceed 7.3 tons/year.

2. Additional Terms and Conditions

- 2.a The OC emissions from the molding operations are comprised of styrene, a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each mold compound, each wet mix and each preform employed.
 - b. The number of pounds of each mold compound employed.
 - c. The number of pounds of each wet mix and each preform employed.
 - d. The total OC emission rate for all mold compounds and all wet mixes/preforms employed, in pounds per day.
 - e. The total number of hours the emissions unit was in operation.
 - f. The average hourly OC emission rate for all mold compounds and all wet mixes/preforms employed, i.e., (d)/(e), in pounds per hour (average).

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average hourly OC emissions from the mold compounds and the wet mixes/preforms exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - b. An identification of each day during which the OC emissions from the mold compounds and the wet mixes/preforms exceeded 40 pounds per day, and the actual OC emissions for each such day.
2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emissions limitation(s) in section A. I. 1. of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation: 8 lbs OC/hr

Applicable Compliance Method: Compliance shall be determined based upon the record keeping specified in section A.III.1.f. of these terms and conditions. If required, the permittee shall use U.S. EPA Method 18, 25 or 25A, as appropriate.

1.b Emission Limitation: 40 lbs OC/day

Applicable Compliance Method: Determination of daily OC emissions for all mold compounds and all wet mixes/preforms:

$$E_{OC} = [\text{summation of } (W_i_{MC}) \times EF] + \{\text{summation of } [(W_i_{WM}) + (W_i_{PF})] \times EF\}$$

Where the following applies:

E_{OC} = daily, OC emissions for all mold compounds and all wet mixes/preforms, as required in the record keeping specified in section A.III.1.d., in pounds per day.

W_i_{MC} = the weight of mold compound "i" employed, in pounds per day.

W_i_{WM} = the weight of wet mix "i" employed, in pounds per day.

W_i_{PF} = the weight of preform "i" employed, in pounds per day.

EF = emission factor for styrene emissions from the mold presses, which is 0.00134 pounds per pound of mold compound or wet mix/preform, as determined from a Society of Plastics Industry report, "Styrene Emissions during the Charging and Molding Cycle".

1.c Emission Limitation: 7.3 TPY OC

Applicable Compliance Method: Compliance shall be based on the record keeping specified in section A.III.1.d. of these terms and conditions and shall be the sum of the daily OC emission rates for the calendar year divided by 2000 lbs/ton.

2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

Facility Name: **Molded Fiber Glass Companies, Composite Systems Co**
Facility ID: **02-04-01-0230**
Emissions Unit: **Molding Press #226 (P030)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Molding Press #228 (P031)
Activity Description: 2850 Ton Molding Press

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Compression mold press #228 for fiberglass reinforced plastic parts	OAC rule 3745-21-07(G)(2)	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day. See section A.1.2.a.
	OAC rule 3745-31-05(A)(3) PTI 02-11578	OC emissions shall not exceed 7.3 tons/year.

2. Additional Terms and Conditions

- 2.a The OC emissions from the molding operations are comprised of styrene, a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each mold compound, each wet mix and each preform employed.
 - b. The number of pounds of each mold compound employed.
 - c. The number of pounds of each wet mix and each preform employed.
 - d. The total OC emission rate for all mold compounds and all wet mixes/preforms employed, in pounds per day.
 - e. The total number of hours the emissions unit was in operation.
 - f. The average hourly OC emission rate for all mold compounds and all wet mixes/preforms employed, i.e., (d)/(e), in pounds per hour (average).

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average hourly OC emissions from the mold compounds and the wet mixes/preforms exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - b. An identification of each day during which the OC emissions from the mold compounds and the wet mixes/preforms exceeded 40 pounds per day, and the actual OC emissions for each such day.
2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emissions limitation(s) in section A. I. 1. of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation: 8 lbs OC/hr

Applicable Compliance Method: Compliance shall be determined based upon the record keeping specified in section A.III.1.f. of these terms and conditions. If required, the permittee shall use U.S. EPA Method 18, 25 or 25A, as appropriate.

1.b Emission Limitation: 40 lbs OC/day

Applicable Compliance Method: Determination of daily OC emissions for all mold compounds and all wet mixes/preforms:

$$E_{OC} = [\text{summation of } (W_i_{MC}) \times EF] + \{\text{summation of } [(W_i_{WM}) + (W_i_{PF})] \times EF\}$$

Where the following applies:

E_{OC} = daily, OC emissions for all mold compounds and all wet mixes/preforms, as required in the record keeping specified in section A.III.1.d., in pounds per day.

W_i_{MC} = the weight of mold compound "i" employed, in pounds per day.

W_i_{WM} = the weight of wet mix "i" employed, in pounds per day.

W_i_{PF} = the weight of preform "i" employed, in pounds per day.

EF = emission factor for styrene emissions from the mold presses, which is 0.00134 pounds per pound of mold compound or wet mix/preform, as determined from a Society of Plastics Industry report, "Styrene Emissions during the Charging and Molding Cycle".

1.c Emission Limitation: 7.3 TPY OC

Applicable Compliance Method: Compliance shall be based on the record keeping specified in section A.III.1.d. of these terms and conditions and shall be the sum of the daily OC emission rates for the calendar year divided by 2000 lbs/ton.

2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

Facility Name: **Molded Fiber Glass Companies, Composite Systems Co**
Facility ID: **02-04-01-0230**
Emissions Unit: **Molding Press #228 (P031)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Molding Press #231 (P032)
Activity Description: 1500 Ton Molding Press

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Compression mold press #231 for fiberglass reinforced plastic parts	OAC rule 3745-21-07(G)(2) OAC rule 3745-31-05(A)(3) PTI 02-11578	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day. See section A.1.2.a. OC emissions shall not exceed 7.3 tons/year.

2. Additional Terms and Conditions

- 2.a The OC emissions from the molding operations are comprised of styrene, a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each mold compound, each wet mix and each preform employed.
 - b. The number of pounds of each mold compound employed.
 - c. The number of pounds of each wet mix and each preform employed.
 - d. The total OC emission rate for all mold compounds and all wet mixes/preforms employed, in pounds per day.
 - e. The total number of hours the emissions unit was in operation.
 - f. The average hourly OC emission rate for all mold compounds and all wet mixes/preforms employed, i.e., (d)/(e), in pounds per hour (average).

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average hourly OC emissions from the mold compounds and the wet mixes/preforms exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - b. An identification of each day during which the OC emissions from the mold compounds and the wet mixes/preforms exceeded 40 pounds per day, and the actual OC emissions for each such day.
2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emissions limitation(s) in section A. I. 1. of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation: 8 lbs OC/hr

Applicable Compliance Method: Compliance shall be determined based upon the record keeping specified in section A.III.1.f. of these terms and conditions. If required, the permittee shall use U.S. EPA Method 18, 25 or 25A, as appropriate.

1.b Emission Limitation: 40 lbs OC/day

Applicable Compliance Method: Determination of daily OC emissions for all mold compounds and all wet mixes/preforms:

$$E_{OC} = [\text{summation of } (W_i_{MC}) \times EF] + \{\text{summation of } [(W_i_{WM}) + (W_i_{PF})] \times EF\}$$

Where the following applies:

E_{OC} = daily, OC emissions for all mold compounds and all wet mixes/preforms, as required in the record keeping specified in section A.III.1.d., in pounds per day.

W_i_{MC} = the weight of mold compound "i" employed, in pounds per day.

W_i_{WM} = the weight of wet mix "i" employed, in pounds per day.

W_i_{PF} = the weight of preform "i" employed, in pounds per day.

EF = emission factor for styrene emissions from the mold presses, which is 0.00134 pounds per pound of mold compound or wet mix/preform, as determined from a Society of Plastics Industry report, "Styrene Emissions during the Charging and Molding Cycle".

1.c Emission Limitation: 7.3 TPY OC

Applicable Compliance Method: Compliance shall be based on the record keeping specified in section A.III.1.d. of these terms and conditions and shall be the sum of the daily OC emission rates for the calendar year divided by 2000 lbs/ton.

2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

Facility Name: **Molded Fiber Glass Companies, Composite Systems Co**
Facility ID: **02-04-01-0230**
Emissions Unit: **Molding Press #231 (P032)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Molding Press #229 (P033)
Activity Description: 2850 Ton Molding Press

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Compression mold press #229 for fiberglass reinforced plastic parts	OAC rule 3745-21-07(G)(2)	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day. See section A.1.2.a.
	OAC rule 3745-31-05(A)(3) PTI 02-11578	OC emissions shall not exceed 7.3 tons/year.

2. Additional Terms and Conditions

- 2.a The OC emissions from the molding operations are comprised of styrene, a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each mold compound, each wet mix and each preform employed.
 - b. The number of pounds of each mold compound employed.
 - c. The number of pounds of each wet mix and each preform employed.
 - d. The total OC emission rate for all mold compounds and all wet mixes/preforms employed, in pounds per day.
 - e. The total number of hours the emissions unit was in operation.
 - f. The average hourly OC emission rate for all mold compounds and all wet mixes/preforms employed, i.e., (d)/(e), in pounds per hour (average).

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average hourly OC emissions from the mold compounds and the wet mixes/preforms exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - b. An identification of each day during which the OC emissions from the mold compounds and the wet mixes/preforms exceeded 40 pounds per day, and the actual OC emissions for each such day.
2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emissions limitation(s) in section A. I. 1. of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation: 8 lbs OC/hr

Applicable Compliance Method: Compliance shall be determined based upon the record keeping specified in section A.III.1.f. of these terms and conditions. If required, the permittee shall use U.S. EPA Method 18, 25 or 25A, as appropriate.

1.b Emission Limitation: 40 lbs OC/day

Applicable Compliance Method: Determination of daily OC emissions for all mold compounds and all wet mixes/preforms:

$$E_{OC} = [\text{summation of } (W_i_{MC}) \times EF] + \{\text{summation of } [(W_i_{WM}) + (W_i_{PF})] \times EF\}$$

Where the following applies:

E_{OC} = daily, OC emissions for all mold compounds and all wet mixes/preforms, as required in the record keeping specified in section A.III.1.d., in pounds per day.

W_i_{MC} = the weight of mold compound "i" employed, in pounds per day.

W_i_{WM} = the weight of wet mix "i" employed, in pounds per day.

W_i_{PF} = the weight of preform "i" employed, in pounds per day.

EF = emission factor for styrene emissions from the mold presses, which is 0.00134 pounds per pound of mold compound or wet mix/preform, as determined from a Society of Plastics Industry report, "Styrene Emissions during the Charging and Molding Cycle".

1.c Emission Limitation: 7.3 TPY OC

Applicable Compliance Method: Compliance shall be based on the record keeping specified in section A.III.1.d. of these terms and conditions and shall be the sum of the daily OC emission rates for the calendar year divided by 2000 lbs/ton.

2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

Facility Name: **Molded Fiber Glass Companies, Composite Systems Co**
Facility ID: **02-04-01-0230**
Emissions Unit: **Molding Press #229 (P033)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Prime Booth Front Line (R003)
Activity Description: Prime Coating Spray Booth

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Prime coating spray booth on front line for coated plastic parts	OAC rule 3745-17-07(A)	Visible particulate emissions from this emissions unit shall not exceed 20% opacity as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(1)	Particulate emissions (PE) shall not exceed 0.69 lb/hr.
	OAC rule 3745-21-07(G)(2)	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day, whenever photochemically reactive materials are employed, excluding emissions from non-photochemically reactive cleanup materials. See section A.1.2.a. below.
	OAC rule 3745-31-05(A)(3) PTI 02-9123	OC emissions shall not exceed 204.8 lbs/day whenever exclusively non-photochemically reactive materials are employed. OC emissions shall not exceed 37.4 tons/year, including emissions from cleanup materials.

2. Additional Terms and Conditions

- Photochemically reactive materials are defined in OAC rule 3745-21-01(C)(5).
- Spray booth transfer efficiency shall be maximized with the use of high volume, low pressure (HVLP) spray guns. Alternative spray equipment may be used if the transfer is at least as efficient as the HVLP spray guns, provided there is both notification to and approval by the Director or a representative from the Northeast District Office.

II. Operational Restrictions

- The permittee shall operate the filter and water wash particulate control systems whenever this emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. For purposes of calculating the organic compound emission rates from coating operations for this emissions unit and the associated oven (P004), the permittee shall utilize a value of 97% as the maximum percentage of the organic compounds employed in this emissions unit that are emitted uncontrolled from the emissions unit. The remaining 3% of the organic compounds from coating operations employed in this emissions unit shall be considered to be the uncontrolled emissions for the associated oven. This "split" of organic compound emissions between this emissions unit and the associated oven is based upon stack testing conducted on January 4 & 5, 1994.
2. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each coating and each cleanup material employed.
 - b. Identification of whether or not each coating and each cleanup material employed is a photochemically reactive material, as defined in OAC rule 3745-21-01(C).
 - c. The volume of each coating employed, in gallons per day.
 - d. The organic compound content of each coating and each cleanup material, in pounds per gallon.
 - e. The total potential (prior to applying the booth/oven "split") daily OC emission rate for all coatings, in pounds per day.
 - f. The total potential daily OC emission rate for all coatings multiplied by the maximum percentage of the emissions associated with this emissions unit (as defined in section A.III.1. of this permit), in pounds per day.
 - g. The volume of each cleanup material dispensed, in gallons per day.
 - h. The volume of each cleanup material returned, in gallons per day.
 - i. The volume of each evaporated cleanup material, in gallons per day.
 - j. On any day when any photochemically reactive material (coating and/or cleanup material) is employed, the OC emission rate for all coatings and photochemically reactive cleanup materials, in pounds per day.
 - k. On any day when exclusively non-photochemically reactive materials are employed, the OC emission rate for all coatings and all cleanup materials, in pounds per day.
 - l. The total number of hours the emissions unit was in operation.
 - m. On any day when any photochemically reactive material (coating and/or cleanup material) is employed, the average hourly OC emission rate for all coatings and photochemically reactive cleanup materials, i.e., (j)/(l), in pounds per hour.
 - n. The total OC emission rate for all coatings and all cleanup materials, in pounds per day.
3. The permittee shall properly operate the filter and water wash particulate control systems and check them at least once per day when the emissions unit is in operation. The permittee shall record each day all periods of time during which the filter and water wash particulate control systems were not in operation when the emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall notify the Northeast District Office in writing of any daily record showing that the filter and water wash systems were not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Northeast District Office within 30 days after the event.
2. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. An identification of each day, whenever photochemically reactive materials (coatings and/or cleanup materials) are employed, during which the average hourly OC emissions from the coatings and photochemically reactive cleanup materials exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - b. An identification of each day, whenever photochemically reactive materials (coatings and/or cleanup materials) are employed, during which the OC emissions from the coatings and photochemically reactive cleanup materials exceeded 40 pounds per day, and the actual OC emissions for each such day.
 - c. An identification of each day, whenever exclusively non-photochemically reactive materials are employed, during which the OC emissions from the coatings and cleanup materials exceeded 204.8 pounds per day, and the actual OC emissions for each such day.
3. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the allowable emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation: 20% opacity of visible particulate emissions, as a 6-minute average.

Applicable Compliance Method: Compliance shall be determined based upon OAC rule 3745-17-03(B)(1), if required by Ohio EPA.

1.b Emission Limitation: 0.69 lb PE/hr.

Applicable Compliance Method: To determine the actual worst case rate for PE, the following equation shall be used:

$$E = CTG \times SC \times (1-TE) \times (1 - CE1) \times (1 - CE2).$$

Where the following applies:
E = PE rate, lbs/hr.

CTG = maximum coating usage rate, which is 13.1 gal/hr as noted in MFG's letter of September 9, 1999.

SC = maximum solids content, which is 10.64 lbs/gal of coating as determined from data in the permit application.

TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used, which is at least 35% as noted in MFG's letter of September 9, 1999.

CE1 = control efficiency of the primary control, which is at least 98.5% as noted in MFG's letter of November 24, 1999.

CE2 = control efficiency of the secondary control equipment, which is at least 98% as noted in MFG's letter of September 9, 1999.

1.c Emission Limitation: 8 lbs OC/hr, excluding emissions from non-photochemically reactive cleanup materials.

Applicable Compliance Method: Compliance shall be demonstrated in accordance with the record keeping requirements specified in section A.III.2.m.

V. Testing Requirements (continued)

- 1.d** Emission Limitation: 40 lbs OC/day, excluding emissions from non-photochemically reactive cleanup materials.

Applicable Compliance Method: Compliance shall be determined upon the following:

i. Determination of total potential daily emissions from coatings shall be made in accordance with the following method(s):

$$EPCTG(\text{lbs/day}) = \text{Summation of } (OC_i \times V_i).$$

where:

EPCTG(lbs/day) = the total potential (prior to applying the booth/oven "split") daily OC emissions from coatings, as specified in section A.III.2.e., in pounds per day.

OC_i = the OC content of coating "i", in pounds per gallon of coating as applied.

V_i = the volume of coating "i" employed, in gallons per day.

ii. Determination of daily emissions from coatings shall be made in accordance with the following method(s):

$$ECTG(\text{lbs/day}) = EPCTG(\text{lbs/day}) \times EF.$$

where:

ECTG(lbs/day) = the daily OC emissions from coatings, in pounds per day.

EF = OC emissions factor from coatings at the booth, which is 0.97 as stated in section A.III.1.

iii. Determination of daily emissions from photochemically reactive cleanup materials, EC_pcr(lbs/day), shall be made in accordance with the following method(s):

$$EC_pcr(\text{lbs/day}) = \text{Summation of } [(VC/OUT - VC/IN)_i \times OC_i].$$

where:

EC_pcr(lbs/day) = the OC emissions from photochemically reactive cleanup materials, in pounds per day.

VC/OUT_i = volume of cleanup material i dispensed to work stations, in gallons per day.

VC/IN_i = volume of cleanup material i returned to solvent dispensing area, in gallons per day.

OC_i = the OC content of cleanup material "i", in pounds per gallon of cleanup material.

iv. Determination of daily emissions from all operations shall be determined in accordance with the following method(s):

$$EOC_pcr(\text{lbs/day}) = ECTG(\text{lbs/day}) + EC_pcr(\text{lbs/day}).$$

- 1.e** Emission Limitation: 204.8 lbs/day OC, including emissions from non-photochemically reactive cleanup materials.

Applicable Compliance Method: Compliance shall be based on the methods specified in section A.V.1.d. of this permit.

- 1.f** Emission Limitation: 37.4 TPY OC, including emissions from non-photochemically reactive cleanup materials.

Applicable Compliance Method: Compliance shall be the sum of the daily OC emissions from all coatings and cleanup materials, as specified in section A.III.2.n., for the calendar year, divided by 2000 lbs/ton.

V. Testing Requirements (continued)

2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Top Coat Booth Front Line (R004)
Activity Description: Topcoat Spray Booth

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Top coating spray booth on front line for coated plastic parts	OAC rule 3745-17-07(A)	Visible particulate emissions from this emissions unit shall not exceed 20% opacity as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(1)	Particulate emissions (PE) shall not exceed 0.69 lb/hr.
	OAC rule 3745-21-07(G)(2)	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day, whenever photochemically reactive materials are employed, excluding emissions from non-photochemically reactive cleanup materials. See section A.1.2.a. below.
	OAC rule 3745-31-05(A)(3) PTI 02-9123	OC emissions shall not exceed 204.8 lbs/day whenever exclusively non-photochemically reactive materials are employed. OC emissions shall not exceed 37.4 tons/year, including emissions from cleanup materials.

2. Additional Terms and Conditions

- 2.a** Photochemically reactive materials are defined in OAC rule 3745-21-01(C)(5).
- 2.b** Spray booth transfer efficiency shall be maximized with the use of high volume, low pressure (HVLP) spray guns. Alternative spray equipment may be used if the transfer is at least as efficient as the HVLP spray guns, provided there is both notification to and approval by the Director or a representative from the Northeast District Office.

II. Operational Restrictions

1. The permittee shall operate the filter and water wash particulate control systems whenever this emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. For purposes of calculating the organic compound emission rates from coating operations for this emissions unit and the associated oven (P004), the permittee shall utilize a value of 97% as the maximum percentage of the organic compounds employed in this emissions unit that are emitted uncontrolled from the emissions unit. The remaining 3% of the organic compounds from coating operations employed in this emissions unit shall be considered to be the uncontrolled emissions for the associated oven. This "split" of organic compound emissions between this emissions unit and the associated oven is based upon stack testing conducted on January 4 & 5, 1994.
2. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each coating and each cleanup material employed.
 - b. Identification of whether or not each coating and each cleanup material employed is a photochemically reactive material, as defined in OAC rule 3745-21-01(C).
 - c. The volume of each coating employed, in gallons per day.
 - d. The organic compound content of each coating and each cleanup material, in pounds per gallon.
 - e. The total potential (prior to applying the booth/oven "split") daily OC emission rate for all coatings, in pounds per day.
 - f. The total potential daily OC emission rate for all coatings multiplied by the maximum percentage of the emissions associated with this emissions unit (as defined in section A.III.1. of this permit), in pounds per day.
 - g. The volume of each cleanup material dispensed, in gallons per day.
 - h. The volume of each cleanup material returned, in gallons per day.
 - i. The volume of each evaporated cleanup material, in gallons per day.
 - j. On any day when any photochemically reactive material (coating and/or cleanup material) is employed, the OC emission rate for all coatings and photochemically reactive cleanup materials, in pounds per day.
 - k. On any day when exclusively non-photochemically reactive materials are employed, the OC emission rate for all coatings and all cleanup materials, in pounds per day.
 - l. The total number of hours the emissions unit was in operation.
 - m. On any day when any photochemically reactive material (coating and/or cleanup material) is employed, the average hourly OC emission rate for all coatings and photochemically reactive cleanup materials, i.e., (j)/(l), in pounds per hour.
 - n. The total OC emission rate for all coatings and all cleanup materials, in pounds per day.
3. The permittee shall properly operate the filter and water wash particulate control systems and check them at least once per day when the emissions unit is in operation. The permittee shall record each day all periods of time during which the filter and water wash particulate control systems were not in operation when the emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall notify the Northeast District Office in writing of any daily record showing that the filter and water wash systems were not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Northeast District Office within 30 days after the event.
2. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. An identification of each day, whenever photochemically reactive materials (coatings and/or cleanup materials) are employed, during which the average hourly OC emissions from the coatings and photochemically reactive cleanup materials exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - b. An identification of each day, whenever photochemically reactive materials (coatings and/or cleanup materials) are employed, during which the OC emissions from the coatings and photochemically reactive cleanup materials exceeded 40 pounds per day, and the actual OC emissions for each such day.
 - c. An identification of each day, whenever exclusively non-photochemically reactive materials are employed, during which the OC emissions from the coatings and cleanup materials exceeded 204.8 pounds per day, and the actual OC emissions for each such day.
3. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the allowable emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation: 20% opacity of visible particulate emissions, as a 6-minute average.

Applicable Compliance Method: Compliance shall be determined based upon OAC rule 3745-17-03(B)(1), if required by Ohio EPA.

1.b Emission Limitation: 0.69 lb PE/hr.

Applicable Compliance Method: To determine the actual worst case rate for PE, the following equation shall be used:

$$E = CTG \times SC \times (1-TE) \times (1 - CE1) \times (1 - CE2).$$

Where the following applies:
E = PE rate, lbs/hr.

CTG = maximum coating usage rate, which is 13.1 gal/hr as noted in MFG's letter of September 9, 1999.

SC = maximum solids content, which is 10.64 lbs/gal of coating as determined from data in the permit application.

TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used, which is at least 35% as noted in MFG's letter of September 9, 1999.

CE1 = control efficiency of the primary control, which is at least 98.5% as noted in MFG's letter of November 24, 1999.

CE2 = control efficiency of the secondary control equipment, which is at least 98% as noted in MFG's letter of September 9, 1999.

1.c Emission Limitation: 8 lbs OC/hr, excluding emissions from non-photochemically reactive cleanup materials.

Applicable Compliance Method: Compliance shall be demonstrated in accordance with the record keeping requirements specified in section A.III.2.m.

V. Testing Requirements (continued)

- 1.d** Emission Limitation: 40 lbs OC/day, excluding emissions from non-photochemically reactive cleanup materials.

Applicable Compliance Method: Compliance shall be determined upon the following:

i. Determination of total potential daily emissions from coatings shall be made in accordance with the following method(s):

$$EPCTG(\text{lbs/day}) = \text{Summation of } (OC_i \times V_i).$$

where:

EPCTG(lbs/day) = the total potential (prior to applying the booth/oven "split") daily OC emissions from coatings, as specified in section A.III.2.e., in pounds per day.

OC_i = the OC content of coating "i", in pounds per gallon of coating as applied.

V_i = the volume of coating "i" employed, in gallons per day.

ii. Determination of daily emissions from coatings shall be made in accordance with the following method(s):

$$ECTG(\text{lbs/day}) = EPCTG(\text{lbs/day}) \times EF.$$

where:

ECTG(lbs/day) = the daily OC emissions from coatings, in pounds per day.

EF = OC emissions factor from coatings at the booth, which is 0.97 as stated in section A.III.1.

iii. Determination of daily emissions from photochemically reactive cleanup materials, EC_pcr(lbs/day), shall be made in accordance with the following method(s):

$$EC_pcr(\text{lbs/day}) = \text{Summation of } [(VC/OUT - VC/IN)_i \times OC_i].$$

where:

EC_pcr(lbs/day) = the OC emissions from photochemically reactive cleanup materials, in pounds per day.

VC/OUT_i = volume of cleanup material i dispensed to work stations, in gallons per day.

VC/IN_i = volume of cleanup material i returned to solvent dispensing area, in gallons per day.

OC_i = the OC content of cleanup material "i", in pounds per gallon of cleanup material.

iv. Determination of daily emissions from all operations shall be determined in accordance with the following method(s):

$$EOC_pcr(\text{lbs/day}) = ECTG(\text{lbs/day}) + EC_pcr(\text{lbs/day}).$$

- 1.e** Emission Limitation: 204.8 lbs/day OC, including emissions from non-photochemically reactive cleanup materials.

Applicable Compliance Method: Compliance shall be based on the methods specified in section A.V.1.d. of this permit.

- 1.f** Emission Limitation: 37.4 TPY OC, including emissions from non-photochemically reactive cleanup materials.

Applicable Compliance Method: Compliance shall be the sum of the daily OC emissions from all coatings and cleanup materials, as specified in section A.III.2.n., for the calendar year, divided by 2000 lbs/ton.

V. Testing Requirements (continued)

2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Prime Booth Back Line (R005)
Activity Description: Prime Booth New Line

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Prime coating spray booth on back line for coated plastic parts	OAC rule 3745-17-07(A)	Visible particulate emissions from this emissions unit shall not exceed 20% opacity as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(1)	Particulate emissions (PE) shall not exceed 0.69 lb/hr.
	OAC rule 3745-21-07(G)(2)	See A.I.2.a. below.
	OAC rule 3745-31-05(A)(3) PTI 02-8904	OC emissions shall not exceed 198.7 lbs/day and 36.26 tons/year, including emissions from cleanup materials.

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the organic compound emission limitations specified in OAC rule 3745-21-07(G)(2) because the use of photochemically reactive materials is prohibited.
- 2.b Spray booth transfer efficiency shall be maximized with the use of high volume, low pressure (HVLP) spray guns. Alternative spray equipment may be used if the transfer is at least as efficient as the HVLP spray guns, with notification to the Director or a representative from the Northeast District Office.

II. Operational Restrictions

1. The permittee shall operate the filter and water wash particulate control systems whenever this emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. For purposes of calculating the organic compound emission rates from coating operations for this emissions unit and the associated oven (P010), the permittee shall utilize a value of 97% as the maximum percentage of the organic compounds employed in this emissions unit that are emitted uncontrolled from the emissions unit. The remaining 3% of the organic compounds from coating operations employed in this emissions unit shall be considered to be the uncontrolled emissions for the associated oven. This "split" of organic compound emissions between this emissions unit and the associated oven is based upon stack testing conducted on January 4 & 5, 1994.

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each coating and cleanup material employed.
 - b. Identification of whether or not each coating and each cleanup material employed is a photochemically reactive material, as defined in OAC rule 3745-21-01(C).
 - c. The organic compound content of each coating and cleanup material, in pounds per gallon.
 - d. The volume of each coating employed, in gallons per day.
 - e. The total potential (prior to applying the booth/oven "split") daily OC emission rate for all coatings, in pounds per day.
 - f. The total potential daily OC emission rate for all coatings multiplied by the maximum percentage of the emissions associated with this emissions unit (as defined in section A.III.1. of this permit), in pounds per day.
 - g. The volume of each cleanup material dispensed, in gallons per day.
 - h. The volume of each cleanup material returned, in gallons per day.
 - i. The volume of each evaporated cleanup material, which is estimated by subtracting the volume of returned cleanup material from the volume of dispensed cleanup material, in gallons per day.
 - j. The OC emission rate for all cleanup materials, which is estimated by multiplying the volume of evaporated cleanup materials by the organic compound content, in pounds per day.
 - k. The total OC emission rate for all materials, which is the sum of the emissions from all coatings and the emissions from all cleanup materials, i. e., (f) + (j), in pounds per day.
3. The permittee shall properly operate the filter and water wash particulate control systems and check them at least once per day when the emissions unit is in operation. The permittee shall record each day all periods of time during which the filter and water wash particulate control systems were not in operation when the emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall notify the Northeast District Office in writing of any daily record showing that the filter and water wash systems were not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Northeast District Office within 30 days after the event.
2. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. An identification of each day during which any photochemically reactive materials were employed.
 - b. An identification of each day, during which the OC emissions from the coatings and cleanup materials exceeded 198.7 pounds per day, and the actual OC emissions for each such day.
3. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the allowable emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a Emission Limitation: 20% opacity of visible particulate emissions, as a 6-minute average.

Applicable Compliance Method: Compliance shall be determined based upon OAC rule 3745-17-03(B)(1), if required by Ohio EPA.

V. Testing Requirements (continued)

1.b Emission Limitation: 0.69 lb PE/hr

Applicable Compliance Method: To determine the actual worst case rate for PE, the following equation shall be used:

$$E = CTG \times SC \times (1-TE) \times (1 - CE1) \times (1 - CE2).$$

Where the following applies:

E = PE rate, lbs/hr.

CTG = maximum coating usage rate, which is 13.1 gal/hr as noted in MFG's letter of September 9, 1999.

SC = maximum solids content, which is 10.64 lbs/gal of coating as determined from data in the permit application.

TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used, which is at least 35% as noted in MFG's letter of September 9, 1999.

CE1 = control efficiency of the primary control, which is at least 98.5% as noted in MFG's letter of November 24, 1999.

CE2 = control efficiency of the secondary control equipment, which is at least 98% as noted in MFG's letter of September 9, 1999.

V. Testing Requirements (continued)

1.c Emission Limitation: 198.7 lbs OC/day, including emissions from cleanup materials.

Applicable Compliance Method: Compliance shall be determined upon the following:

i. Determination of total potential daily emissions from coatings shall be made in accordance with the following method(s):

$$EPCTG(\text{lbs/day}) = \text{Summation of } (OC_i \times V_i).$$

where:

EPCTG(lbs/day) = the total potential (prior to applying the booth/oven "split") daily OC emissions from coatings, in pounds per day.

OC_i = the OC content of coating "i", in pounds per gallon of coating as applied.

V_i = the volume of coating "i" employed, in gallons per day.

ii. Determination of daily emissions from coatings shall be made in accordance with the following method(s):

$$ECTG(\text{lbs/day}) = EPCTG(\text{lbs/day}) \times EF.$$

where:

ECTG(lbs/day) = the daily OC emissions from coatings, in pounds per day.

EF = OC emissions factor from coatings at the booth, which is 0.97 as stated in section A.III.1.

iii. Determination of daily emissions from cleanup materials, EC(lbs/day), shall be made in accordance with the following method(s):

$$EC(\text{lbs/day}) = \text{Summation of } [(VC/OUT - VC/IN)_i \times OC_i].$$

where:

EC(lbs/day) = the OC emissions from cleanup materials, in pounds per day.

VC/OUT_i = volume of cleanup material i dispensed to work stations, in gallons per day.

VC/IN_i = volume of cleanup material i returned to solvent dispensing area, in gallons per day.

OC_i = the OC content of cleanup material "i", in pounds per gallon of cleanup material.

iii. Determination of daily emissions from all operations, EOC(lbs/day), shall be determined in accordance with the following method(s):

$$EOC(\text{lbs/day}) = ECTG(\text{lbs/day}) + EC(\text{lbs/day}).$$

1.d Emission Limitation: 36.26 TPY OC, including emissions from cleanup materials.

Applicable Compliance Method: Compliance shall be calculated as the sum of the daily OC emissions, as specified in section A.III.2.k. for the calendar year, divided by 2000 pounds/ton.

2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

Facility Name: **Molded Fiber Glass Companies, Composite Systems Co**
Facility ID: **02-04-01-0230**
Emissions Unit: **Prime Booth Back Line (R005)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Top Coat Booth Back Line (R006)
Activity Description: Top Coat Booth New Line

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Top coating spray booth on back line for coated plastic parts	OAC rule 3745-17-07(A)	Visible particulate emissions from this emissions unit shall not exceed 20% opacity as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(1)	Particulate emissions (PE) shall not exceed 0.69 lb/hr.
	OAC rule 3745-21-07(G)(2)	See A.I.2.a. below.
	OAC rule 3745-31-05(A)(3) PTI 02-8904	OC emissions shall not exceed 198.7 lbs/day and 36.26 tons/year, including emissions from cleanup materials.

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the organic compound emission limitations specified in OAC rule 3745-21-07(G)(2) because the use of photochemically reactive materials is prohibited.
- 2.b Spray booth transfer efficiency shall be maximized with the use of high volume, low pressure (HVLP) spray guns. Alternative spray equipment may be used if the transfer is at least as efficient as the HVLP spray guns, with notification to the Director or a representative from the Northeast District Office.

II. Operational Restrictions

1. The permittee shall operate the filter and water wash particulate control systems whenever this emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. For purposes of calculating the organic compound emission rates from coating operations for this emissions unit and the associated oven (P011), the permittee shall utilize a value of 97% as the maximum percentage of the organic compounds employed in this emissions unit that are emitted uncontrolled from the emissions unit. The remaining 3% of the organic compounds from coating operations employed in this emissions unit shall be considered to be the uncontrolled emissions for the associated oven. This "split" of organic compound emissions between this emissions unit and the associated oven is based upon stack testing conducted on January 4 & 5, 1994.

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each coating and cleanup material employed.
 - b. Identification of whether or not each coating and each cleanup material employed is a photochemically reactive material, as defined in OAC rule 3745-21-01(C).
 - c. The organic compound content of each coating and cleanup material, in pounds per gallon.
 - d. The volume of each coating employed, in gallons per day.
 - e. The total potential (prior to applying the booth/oven "split") daily OC emission rate for all coatings, in pounds per day.
 - f. The total potential daily OC emission rate for all coatings multiplied by the maximum percentage of the emissions associated with this emissions unit (as defined in section A.III.1. of this permit), in pounds per day.
 - g. The volume of each cleanup material dispensed, in gallons per day.
 - h. The volume of each cleanup material returned, in gallons per day.
 - i. The volume of each evaporated cleanup material, which is estimated by subtracting the volume of returned cleanup material from the volume of dispensed cleanup material, in gallons per day.
 - j. The OC emission rate for all cleanup materials, which is estimated by multiplying the volume of evaporated cleanup materials by the organic compound content, in pounds per day.
 - k. The total OC emission rate for all materials, which is the sum of the emissions from all coatings and the emissions from all cleanup materials, i. e., (f) + (j), in pounds per day.
3. The permittee shall properly operate the filter and water wash particulate control systems and check them at least once per day when the emissions unit is in operation. The permittee shall record each day all periods of time during which the filter and water wash particulate control systems were not in operation when the emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall notify the Northeast District Office in writing of any daily record showing that the filter and water wash systems were not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Northeast District Office within 30 days after the event.
2. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. An identification of each day during which any photochemically reactive materials were employed.
 - b. An identification of each day, during which the OC emissions from the coatings and cleanup materials exceeded 198.7 pounds per day, and the actual OC emissions for each such day.
3. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the allowable emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a Emission Limitation: 20% opacity of visible particulate emissions, as a 6-minute average.

Applicable Compliance Method: Compliance shall be determined based upon OAC rule 3745-17-03(B)(1), if required by Ohio EPA.

V. Testing Requirements (continued)

1.b Emission Limitation: 0.69 lb PE/hr

Applicable Compliance Method: To determine the actual worst case rate for PE, the following equation shall be used:

$$E = CTG \times SC \times (1-TE) \times (1 - CE1) \times (1 - CE2).$$

Where the following applies:

E = PE rate, lbs/hr.

CTG = maximum coating usage rate, which is 13.1 gal/hr as noted in MFG's letter of September 9, 1999.

SC = maximum solids content, which is 10.64 lbs/gal of coating as determined from data in the permit application.

TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used, which is at least 35% as noted in MFG's letter of September 9, 1999.

CE1 = control efficiency of the primary control, which is at least 98.5% as noted in MFG's letter of November 24, 1999.

CE2 = control efficiency of the secondary control equipment, which is at least 98% as noted in MFG's letter of September 9, 1999.

V. Testing Requirements (continued)

1.c Emission Limitation: 198.7 lbs OC/day, including emissions from cleanup materials.

Applicable Compliance Method: Compliance shall be determined upon the following:

i. Determination of total potential daily emissions from coatings shall be made in accordance with the following method(s):

$$\text{EPCTG}(\text{lbs/day}) = \text{Summation of } (\text{OC}_i \times \text{V}_i).$$

where:

EPCTG(lbs/day) = the total potential (prior to applying the booth/oven "split") daily OC emissions from coatings, in pounds per day.

OC_i = the OC content of coating "i", in pounds per gallon of coating as applied.

V_i = the volume of coating "i" employed, in gallons per day.

ii. Determination of daily emissions from coatings shall be made in accordance with the following method(s):

$$\text{ECTG}(\text{lbs/day}) = \text{EPCTG}(\text{lbs/day}) \times \text{EF}.$$

where:

ECTG(lbs/day) = the daily OC emissions from coatings, in pounds per day.

EF = OC emissions factor from coatings at the booth, which is 0.97 as stated in section A.III.1.

iii. Determination of daily emissions from cleanup materials, EC(lbs/day), shall be made in accordance with the following method(s):

$$\text{EC}(\text{lbs/day}) = \text{Summation of } [(\text{VC}/\text{OUT} - \text{VC}/\text{IN})_i \times \text{OC}_i].$$

where:

EC(lbs/day) = the OC emissions from cleanup materials, in pounds per day.

VC/OUT_i = volume of cleanup material i dispensed to work stations, in gallons per day.

VC/IN_i = volume of cleanup material i returned to solvent dispensing area, in gallons per day.

OC_i = the OC content of cleanup material "i", in pounds per gallon of cleanup material.

iii. Determination of daily emissions from all operations, EOC(lbs/day), shall be determined in accordance with the following method(s):

$$\text{EOC}(\text{lbs/day}) = \text{ECTG}(\text{lbs/day}) + \text{EC}(\text{lbs/day}).$$

1.d Emission Limitation: 36.26 TPY OC, including emissions from cleanup materials.

Applicable Compliance Method: Compliance shall be calculated as the sum of the daily OC emissions, as specified in section A.III.2.k. for the calendar year, divided by 2000 pounds/ton.

2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

Facility Name: **Molded Fiber Glass Companies, Composite Systems Co**
Facility ID: **02-04-01-0230**
Emissions Unit: **Top Coat Booth Back Line (R006)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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