

Facility Name: MOLDED FIBER GLASS CO. PLT II

Application Number: 02-8904

Date: December 15, 1999

### **GENERAL PERMIT CONDITIONS**

#### **TERMINATION OF PERMIT TO INSTALL**

Substantial construction for installation must take place within 18 months of the effective date of this permit. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

#### **NOTICE OF INSPECTION**

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

#### **CONSTRUCTION OF NEW SOURCES**

The proposed source(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction of the proposed source(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of Ohio Administrative Code (OAC) Rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the

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proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities prone to be inadequate or cannot meet applicable standards.

#### **PERMIT TO INSTALL FEE**

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 30 days of the effective date of this permit to install.

#### **PUBLIC DISCLOSURE**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC Rule 3745-49-03.

#### **APPLICABILITY**

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

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#### **BEST AVAILABLE TECHNOLOGY**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

#### **PERMIT TO OPERATE APPLICATION**

A Permit to Operate application must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule 3745-35-02, the application shall be filed no later than thirty days after commencement of operation.

#### **SOURCE OPERATION AFTER COMPLETION OF CONSTRUCTION**

This facility is permitted to operate each source described by this permit to install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations and policies.

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
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AIR EMISSION SUMMARY

The air contaminant sources listed below comprise the Permit to Install for **MOLDED FIBER GLASS COMPANY - PLT. II** located in Ashtabula County. The sources listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

<u>Ohio EPA Source Number</u>		<u>Source Identification Description</u>
P010	R005	Modification of South Prime Oven
	R006	
P011		Modification of South Topcoat Oven
P027		120" Preform Machine

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
		<u>BAT Determination</u>		<u>Applicable Federal &amp; OAC Rules</u>
		See permit Allowable Emissions		3745-31-05 3745-21-07 (G) (1)
		Same as permit Allowable Emission		3745-31-05 3745-21-07 (G) (1)
Modification of South Prime Spray Booth	Use of exclusively nonphotochemically reactive materials			3745-31-05 3745-21-07 (G) (1) 3745-17-07 (A) 3745-17-11 3745-23-06 3745-21-08
Modification of South Topcoat Spray Booth	Use of exclusively nonphototchemically reactive materials			

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
	Permit Allowable Mass Emissions and/or Control/Usage Requirements	21.9 lbs/day of OC emissions from binder usage at spray-up and oven exhaust. 4.14 TPY of total OC emissions from binder usage and fuel combustion. 1.26 lbs/hr TSP emissions from the spray-up operation.		
	3 lbs/hr, 15 lbs/day & 2.74 TPY of OC emissions	5.78 TPY of total TSP emissions from spray-up and fuel combustion. 0.29 lb/hr and 1.27 TPY of NO <sub>x</sub> emissions at the oven exhaust. 0.25 lb/hr and 1.10 TPY of CO emissions at the oven exhaust.		
3745-31-05	unit shall not exceed 20% opacity as a 6-minute average,	198.7 lbs/day and 36.26 TPY of OC emissions		
3745-31-05	except as specified by rule. 3 lbs/hr, 15 lbs/day of OC emissions at the oven exhaust from binder usage.	198.7 lbs/day and 36.26 TPY of OC emissions		

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<u>OEPA Source Number</u>	<u>Current OC Allowable Limit TPY</u>	<u>New OC Allowable TPY</u>	<u>Increase in OC Allowable TPY</u>
P010	1.95	2.74	0.79
P011	1.95	2.74	0.79
P027	NA	4.14	4.14
R005	17.55	36.26	18.71
R006	17.55	<u>36.26</u>	<u>18.71</u>
		82.14	43.14

SUMMARY

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
OC	82.14
TSP	5.78
NO <sub>x</sub>	1.27
CO	1.10

**RECORD (S) RETENTION AND AVAILABILITY**

All records required by this Permit to Install shall be retained on file for a period of not less than three years unless otherwise

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indicated by Ohio Environmental Protection Agency. All records shall be made available to the Director, or any representative of the Director, for review during normal business hours.

#### **REPORTING REQUIREMENTS**

Unless otherwise specified, reports required by the Permit to Install need only be submitted to OEPA Northeast District Office - DAPC, 2110 East Aurora Road, Twinsburg, Ohio 44087.

#### **WASTE DISPOSAL**

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport and disposal of any waste material generated by the operation of the sources.

#### **MAINTENANCE OF EQUIPMENT**

This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

#### **AIR POLLUTION NUISANCES PROHIBITED**

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

#### **NINETY DAY OPERATING PERIOD**

The facility will be permitted to operate during a 90-day period in accordance with OAC Rule 3745-35-02(C)(4)(b). The purpose of this period of operation is to fulfill the performance tests conditions used in the determination of compliance with the provisions of this Permit to Install or other applicable Ohio EPA rules.

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### **CONSTRUCTION COMPLIANCE CERTIFICATION**

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

### **ADDITIONAL SPECIAL TERMS AND CONDITIONS**

#### **(P027) 120" PREFORM MACHINE**

##### **1. Mass Emission Limits**

- a. No material employed at this emission unit shall be at the time of usage photochemically reactive as defined in OAC Rule 3745-21-01(C) (5).
- b. No more than 3 lbs/hr and 15 lbs/day of organic compound (OC) emissions are permitted from the oven exhaust.
- c. OC emissions from binder usage at the spray-on emission point and at the oven emission point is limited to 21.9 lbs/day.
- d. OC emissions from the combination of binder usage and the combustion of fuel gas is limited to 4.14 tons per year.
- e. Total suspended particulate (TSP) emissions from the spray-up operation is limited to 1.26 lbs/hr.
- f. TSP emissions from the spray-up operation and fuel combustion is limited to 5.78 tons/year.
- g. Carbon monoxide (CO) emissions from the combustion of fuel gas is limited to 0.25 lb/hr and 1.10 tons/year.
- h. Nitrogen oxide (NO<sub>x</sub>) emissions from the combustion of fuel gas is limited to 0.29 lb/hr and 1.27 tons/year.

##### **2. Recordkeeping Requirements**

The facility shall maintain daily records which list the following information for each binder employed at this emission unit:

- a. the company identification of the binder;
- b. the number of pounds of binder employed;

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- c. the OC content, minus water, in percent by weight for each binder employed;
- d. the actual hours of operation at the emission unit;
- e. for each day, an estimate of the daily, total OC emissions from the usage of each binder in pounds per day;
- f. for each day, an estimate of the daily, OC emission at the oven exhaust from the usage of each binder in pounds per day; and,
- g. for each day the average, hourly OC emissions at the oven exhaust from the usage binders, which is derived by dividing the daily OC emissions at the oven exhaust by the actual operating hours, in pounds per hour.

These daily records, as well as any supporting analysis and computation, shall be retained in the company's files for a period of not less than three years and shall be made available to the Director or any authorized representative of the Director for review during normal business hours.

### **3. Reporting Requirements**

- a. The facility shall submit quarterly reports to the Ohio EPA Northeast District Office which note the following information for each binder employed at this emissions unit for each day of operation during the previous three calendar months:
  - i. the company identification of the binder;
  - ii. the identification of each binder as either photochemically reactive or non-photochemically reactive;
  - iii. the number of pounds of binder employed;
  - iv. the OC content, minus water, in percent by weight for each binder employed;
  - v. the actual hours of operation at the emission unit;
  - vi. for each day, an estimate of the daily, total OC

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emissions from the usage of each binder in pounds per day;

vii. for each day, an estimate of the daily, OC emissions at the oven exhaust from the usage of each binder in pounds per day;

viii. for each day the average, hourly OC emissions at the oven exhaust from the usage binders, which is derived by dividing the daily OC emissions at the oven exhaust by the actual operating hours, in pounds per hour;

ix. a statement(s) noting the mass emission limits as specified in Term 1.b. - d. above;

x. the mix ratio (by weight) of all components for each new binder; and,

xi. the MSDS or analysis of each component for new binders employed.

b. These reports shall be submitted by February 1, May 1, August 1 and November 1 of each year and shall cover the previous three calendar months of the previous quarter (i.e., October through December, January through March, April through June and July through September, respectively).

**(R005 & R006) SOUTH PRIME COAT & SOUTH TOPCOAT SPRAY BOOTHS FOR EACH BOOTH**

**4. Mass Emission Limits**

a. The organic compound (OC) emissions from usage of coatings and cleanup materials shall be restricted to 198.7 lbs/day and 36.26 tons/yr.

b. No coating or cleanup material employed at this emission unit shall be at the time of usage photochemically reactive as defined in OAC Rule 3745-21-01(C) (5).

**5. Recordkeeping Requirements**

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The facility shall maintain daily records which list the following information for all coatings and cleanup materials employed at the emission unit:

- a. the company identification for each coating and cleanup material employed;
- b. the identification of coating and cleanup material as either photochemically reactive or non-photochemically reactive;
- c. documentation on whether or not each coating and cleanup material is or is not a photochemically reactive material;
- d. the number of gallons of each coating and cleanup material employed, in gallons per day at the emission unit;
- e. the OC content of each coating and cleanup material in pounds per gallon; and,
- f. for each day, the total daily OC emissions from the usage of each coating and cleanup material, in total pounds per day (97% of available OC's from coatings will be attributed to the booth).

These daily records, as well as any supporting analysis and computations, shall be retained in the company's files for a period of not less than three years and shall be made available upon request to the Director or any authorized representative of the Director for review during normal business hours.

## **6. Reporting Requirements**

- a. The facility shall submit quarterly reports to the Ohio EPA Northeast District Office which summarize the following information during the previous quarter:
  - i. for each day the total OC emissions from the usage of each coating and cleanup material, in total pounds per day;
  - ii. the total, quarterly OC emission rate from the usage of coating and cleanup materials employed, in pounds per quarter;
  - iii. a statement(s) noting the daily and annual OC limits as specified in Term 4.a. above; and,
  - iv. for each day that an exceedance of the total, daily OC emission rate occurs, a description of any corrective action taken.

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- b. These reports shall be submitted by February 1, May 1, August 1 and November 1 of each year and shall cover the previous three calendar months of the previous quarter (i.e., October through December, January through March, April through June and July through September, respectively).

**P010 & P011 SOUTH PRIME OVEN & SOUTH TOPCOAT OVEN**

**FOR EACH OVEN**

**7. Mass Emission Limits**

The organic compound (OC) emissions shall be limited to 3.00 lbs/hr, 15 lbs/day and 2.74 tons/year.

**8. Recordkeeping Requirements**

Molded Fiber Glass Company shall maintain daily records which list the following information:

- a. for each day, the actual hours of operation of the emission unit;
- b. for each day, the total OC emissions from the baking of each coating material employed in the respective spray booth, in pounds per day (3 of the available OC's from coatings in the respective booth will be attributed to the oven); and,
- c. for each day, the average, hourly OC emissions from the baking of coating materials employed in the respective booth, (calculated by dividing the total, daily OC emissions by the actual operating hours), in pounds per hour.

These daily records, as well as any supporting analyses and computations, shall be retained in the company's files for a period of not less than three years and shall be made available upon request to the Director or any authorized representative of the Director for review during normal business hours.

**9. Reporting Requirements**

- a. The facility shall submit quarterly reports to the Ohio EPA Northeast District Office which summarize the following information from the previous quarter:

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- i. for each day, the actual hours of operation of the source;
  - ii. for each day, the total OC emissions in pounds per day;
  - iii. for each day, the average, hourly OC emissions in pounds per hour;
  - iv. the total, quarterly OC emission rate in pounds per quarter;
  - v. a statement(s) noting the hourly and daily OC limits as specified in Term 7 above; and,
  - vi. for each day that an exceedance of the total, daily OC emission rate or the average, hourly OC emission rate occurs, a description of any corrective action taken.
- b. These reports shall be submitted by February 1, May 1, August 1 and November 1 of each year and shall cover the previous three calendar months of the previous quarter (i.e., October through December, January through March, April through June and July through September, respectively).