Facility ID: 0243081315 Issuance type: Final State Permit To Operate

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In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 0243081315 Emissions Unit ID: P005 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

   (a) None.

2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

   (a) None.

A. **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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
750 lb. Baker-Perkin mixer with exhaust vent to baghouse (P005)	OAC rule 3745-17-11	Particulate emissions from this emissions unit shall not exceed 1.44 lbs/hr.
	OAC rule 3745-31-05(A)(3) OEPA PTI #02-11823	a. Visible particulate emissions from this emissions unit shall not exceed twenty percent opacity as a three-minute average. b. Particulate emissions (PE) from this emissions unit shall not exceed 6.3 TPY.
	OAC rule 3745-21-07(G)(2)	OC emissions from this emissions unit shall not exceed 40 lbs/day nor 8 lbs/hr.
	OAC rule 3745-17-07	See section A.2.c. below.

2. **Additional Terms and Conditions**

   (a) Exhaust from this mixer shall be vented to a baghouse particulate emissions control device.
   The concentration of HAPs in the combined resin/solvent component of the blended plastic material shall not exceed ten (10) percent by weight of the resin/solvent mixture.
   The emission limit(s) specified in this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).

B. **Operational Restrictions**

1. The single baghouse dust control system connected to all of the mixers (P002 -- P005) shall be operated at all times that any one (or all) of these emissions units is operating (i.e., powder material and resin/solvent is being introduced into and/or mixed in any one of the mixers).

2. The baghouse dust collection system associated with these mixers (P002 -- P005) shall be routinely maintained and cleaned in accordance with manufacturer's recommendations. A log shall be kept on site which indicates the date and level of such maintenance.

C. **Monitoring and/or Record Keeping Requirements**

1. The permittee shall collect and record the following information for each day during which the mixer is being operated (i.e., powdered material and resin/solvent compound placed into and mixed in the mixer to form plastic material):

   a. the total weight of powder/dry material placed in each mixer being operated;

   b. the number of gallons of resin/solvent compound added to (used) in each batch of plastic material mixed and the gallons of any photochemically reactive cleanup material employed;

   c. the organic compound content of the resin/solvent compound used in the formation of the plastic material and any photochemically reactive cleanup material employed in the mixer, in pounds per gallon;

   d. the total HAPs content of the resin/solvent compound used in the formation of the plastic material and of the cleanup material employed in the mixer, in pounds per gallon and percent by weight of the resin/solvent compound;

   e. the total weight of plastic material mixed (produced) in the mixer;

f. the total number of hours the mixer was in operation;

g. the average hourly emissions rate for particulates due to the powder/dry material used in the formation of plastic material (based on test methods stipulated in these Terms and Conditions), in pounds per hour (average);

h. the average hourly emission rate of organic compounds due to the resin/solvent mixture used in the formation of the plastic material and the photochemically reactive cleanup materials (based on test methods stipulated in these Terms and Conditions), in pounds per hour (average); and
i. the daily emission rate of organic compounds due to the resin/solvent mixture used in the formation of the plastic material and the photochemically reactive cleanup materials (based on test methods stipulated in these Terms and Conditions), in pounds per day.

[Note: The resin/solvent compound information must be for the mixture as employed, including any thinning solvents added at the emissions unit. Also, the definitions of "photochemically reactive" and "nonphotochemically reactive" are based upon OAC rule 3745-21-01(C)(5).]

2. The permittee will record, on a daily basis, the total operating time of the baghouse dust control system serving emissions units P002 -- P005.

D. **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 mixer 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 mixer exceeded 40 pounds per day, and the actual organic compound emissions for each such day.

c. An identification of each day during which the total HAPs component of any resin/solvent compound used in formation of the plastic materials exceeded ten (10) percent by weight, and the actual weight percent for total HAPs in the mixture.

d. An identification of each day during which the baghouse dust control system failed to operate during a time when the mixer is operating, the reason for such operational failure, and the remedial steps taken to correct the problem.

E. **Testing Requirements**

1. Emission Limitation: Particulate emissions from this emissions unit shall not exceed 1.44 lbs/hr and 6.3 TPY,

Applicable Compliance Method: Compliance shall be based on calculations using recorded operations data for the quantity of powder employed in this emissions unit (mixer), an emissions factor of 20 pounds of particulate emissions per ton of dry material (powder) employed [per AP-42, Third Edition, Section 5.10-1 (5/83)], the assumption of ninety (90) percent collection efficiency for the baghouse dust control system, and the recorded hours of operation for this mixer. If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the particulate emission limit for this emissions units by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 5, and in OAC 3745- 17-03(B)(7).

2. Emissions Limitation: Visible particulate emissions shall not exceed twenty (20) percent opacity as a three-minute average.

Applicable Compliance Method: Compliance shall be determined through visible emission observations in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03 (B)(1).

3. Emissions Limitation: OC emissions from this emissions unit shall not exceed 40 pounds per day nor 8 lbs/hr.

Applicable Compliance Method: Compliance shall be based on data obtained under record keeping (section C) above and an emissions factor of 1.5 percent (average) loss of resin/solvent material per AP-42, Third Edition, Section 5.10-1 (5/83).

4. Emissions Limitation: Concentration of HAPs in the combined resin/solvent component of the blended plastic material shall not exceed ten (10) percent by weight of the resin/solvent mixture.

Applicable Compliance Method: Compliance shall be based on resin/solvent component data collected and recorded per requirements of section C.1. above.

F. **Miscellaneous Requirements**

1. None