



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
FRANKLIN COUNTY**

CERTIFIED MAIL

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 01-08497

DATE: 5/21/2002

Crane Plastics LP
Chris Mallory
2141 Fairwood Ave
Columbus, OH 43207

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

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

cc: USEPA

CDO



**Permit To Install
Terms and Conditions**

**Issue Date: 5/21/2002
Effective Date: 5/21/2002**

FINAL PERMIT TO INSTALL 01-08497

Application Number: 01-08497
APS Premise Number: 0125041564
Permit Fee: **\$3000**
Name of Facility: Crane Plastics LP
Person to Contact: Chris Mallory
Address: 2141 Fairwood Ave
Columbus, OH 43207

Location of proposed air contaminant source(s) [emissions unit(s)]:
**2141 Fairwood Avenue
Columbus, Ohio**

Description of proposed emissions unit(s):
Maxi compound shaker.

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

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. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. 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.

9. Construction of New Sources(s)

The proposed emissions unit(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 cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(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 OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the 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 cannot meet the requirements of this permit or cannot meet applicable standards.

10. 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.

11. Applicability

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit to Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

12. 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.

13. Source Operation and Operating Permit Requirements 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. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

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14. 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.

15. 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. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
PE	6.2
OC	17.95

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

- The specific operations(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 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>
P002 - Maxi unit for blending plastic resin vented to baghouse (2.8 ton/hr)	OAC rule 3745-31-05(A)(3)	Particulate emissions (PE) shall not exceed 0.32 lb/hr and 1.4 tons/yr.
		Organic compound (OC) emissions shall not exceed 3.2 lbs/hr and 14.1 tons per year.
		The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A) and 3745-21-07(G)(2).
	OAC rule 3745-17-07(A)	Visible particulate emissions from the stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-07(G)(2)	OC emissions shall not exceed 8 lbs/hr and 40 lbs/day, unless non-photochemically reactive

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materials are employed. See section
A.2.a below.

2. Additional Terms and Conditions

- 2.a** To avoid the emission limitations/control requirements contained in OAC rule 3745-21-07(G)(2), non- photochemically reactive materials (i.e., as raw materials or cleanup materials) shall be employed in this emissions unit.

Note: The definition of "photochemically reactive material" is based upon OAC rule 3745-21-01(C)(5).

- 2.b** The PE collection system shall achieve a minimum 99 % capture of fugitive PE and vent to a baghouse with an outlet loading not to exceed 0.02 grain/dscf.
- 2.c** The 0.32 lb PE/hr and 3.2 lb OC/hr emission limitations were established to reflect the potential to emit of this emissions unit. Therefore, record keeping and reporting requirements are not necessary to demonstrate compliance with these emission limitations.

B. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 3 inches of water while the emissions unit is in operation.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual. Once per day the permittee shall record the following in the operations log:
 - a. pressure drop across the baghouse for each day of operation, and
 - b. a log or record of downtime for the control device and monitoring equipment, when the associated emissions unit is in operation.
2. The permittee shall maintain daily records of the following for liquid organic material usage:
 - a. the identification each liquid organic material employed and whether it is photochemically reactive;
 - b. the volume of each liquid organic material employed, in gallons;

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Emissions Unit ID: **P002**

- c. the OC content in lbs OC/gallon employed for each liquid organic material;

- d. the calculated daily OC emission rate, in pounds for each day; and
- e. the accumulating summation of the daily OC emission rate for each month.

D. Reporting Requirements

1. In accordance with paragraph A.2.b. of the General Terms and Conditions the permittee shall submit quarterly deviation (excursion) reports for all exceedences during which:
 - a. the pressure drop across the fabric filter did not comply with the allowable range specified in restriction B.1, as determined through monitoring in C.1. above and any actions taken to return the pressure drop to a compliant operating range; and
 - b. an identification of each day during which a photochemically reactive formulation was employed resulting in emissions in excess of 40 lbs OC/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. This reporting requirement may be satisfied by including and identifying the specific emissions data for this emissions unit in the annual Fee Emission Report.

E. Testing Requirements

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

- a. Emissions Limitations:
PE shall not exceed 0.32 lb/hr and 1.4 tons/yr.

Applicable Compliance Method:

Compliance with the hourly limitation shall be determined by calculation to meet an outlet grain loading of 0.02 gr/dscf at an air flow of 1848 dscf/min times 60 min/hr times 7000 gr/lb equal 0.32 lb/hr. Compliance with the annual emissions limitation is based on the maximum hourly emission rate of 0.32 lb PE/hr times 8,760 hours per year to yield the maximum potential to emit $0.32 \text{ lb PE/hr} * 8,760 \text{ hr/yr} * 1 \text{ ton}/2,000 \text{ lbs} = 1.4 \text{ ton PE/yr}$.

- b. Emission Limitation:
OC shall not exceed 3.2 lbs/hr and 14.1 tons/yr.

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Emissions Unit ID: **P002**

Applicable Compliance Method:

Compliance with the hourly limitation shall be determined by calculation using the volatile content of the liquid resin (0.293 lbs/gallon) times the maximum liquid resins usage per hour (11 gallons). $0.293 \text{ lbs OC/gallon} * 11 \text{ gallons/hr} = 3.2 \text{ lb OC/hr}$. Compliance with the

annual emissions limitation is based on the maximum potential to emit of 8,760 hours per year times the maximum hourly emission rate. $3.2 \text{ lb OC/hr} * 8,760 \text{ hr/yr} * 1 \text{ ton}/2,000 \text{ lbs} = 14.1 \text{ tons OC/yr}$.

- c. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average.

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in section A.III.2. of this permit. If required, compliance shall be demonstrated by visible emissions monitoring performed in accordance with 40CFR Part 60, Appendix A, Method 9 using the methods and procedures specified in OAC rule 3745-17-03(B)(1).

F. Miscellaneous Requirements

None

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
P003 - Mini units for blending plastic resins vented to baghouse (1.4 tons/hr)	OAC rule 3745-31-05(A)(3)	Particulate emissions (PE) shall not exceed 0.32 lb/hr and 1.4 tons/yr.
		Organic compound (OC) emissions shall not exceed 0.88 lb/hr and 3.85 tons/yr.
		The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A) and 3745-21-07(G)(2).
	OAC rule 3745-17-07(A)	Visible particulate emissions from the stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-07(G)(2)	OC emissions shall not exceed 8 lbs/hr and 40 lbs/day, unless

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Emissions Unit ID: **P003**

non-photochemically reactive
materials are employed. See section
A.2.a below.

2. Additional Terms and Conditions

- 2.a To avoid the emission limitations/control requirements contained in OAC rule 3745-21-07(G)(2), non- photochemically reactive materials (i.e., as raw materials or cleanup materials) shall be employed in this emissions unit.
- 2.b The PE collection system shall achieve a minimum 99 % capture of fugitive PE and vent to a baghouse with an outlet loading not to exceed 0.02 grain/dscf.
- 2.c The 0.32 lb PE/hr and 0.88 lb OC/hr emission limitations were established to reflect the potential to emit of this emissions unit. Therefore, record keeping and reporting requirements are not necessary to demonstrate compliance with these emission limitations.

B. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range of 2 to 3 inches of water while the emissions unit is in operation.

C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual. Once per day the permittee shall record the following in the operations log:
 - a. pressure drop across the baghouse for each day of operation, and
 - b. a log or record of downtime for the control device and monitoring equipment, when the associated emissions unit is in operation.
- 2. The permittee shall maintain daily records of the following for liquid organic material usage:
 - a. the identification each liquid organic material employed and whether it is photochemically reactive;
 - b. the volume of each liquid organic material employed, in gallons;
 - c. the OC content in lbs OC/gallon employed for each liquid organic material;
 - d. the calculated daily OC emission rate, in pounds for each day; and

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Emissions Unit ID: **P003**

- e. the accumulating summation of the daily OC emission rate for each month.

D. Reporting Requirements

1. In accordance with paragraph A.2.b. of the General Terms and Conditions the permittee shall submit quarterly deviation(excursion) reports for all exceedences during which:
 - a. the pressure drop across the fabric filter did not comply with the allowable range specified in restriction B.1, as determined through monitoring in C.1. above and any actions taken to return the pressure drop to a compliant operating range; and
 - b. an identification of each day during which a photochemically reactive formulation was employed resulting in emissions in excess of 40 lbs OC/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. This reporting requirement may be satisfied by including and identifying the specific emissions data for this emissions unit in the annual Fee Emission Report.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1. of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emissions Limitations:
PE shall not exceed 0.32 lb/hr and 1.4 tons/yr.

Applicable Compliance Method:
Compliance with the hourly limitation shall be determined by calculation to meet an outlet grain loading of 0.02 gr/dscf at an air flow of 1848 dscf/min times 60 min/hr times 7000 gr/lb equal 0.32 lb/hr. Compliance with the annual emissions limitation is based on the maximum hourly emission rate of 0.32 lb PE/hr times 8,760 hours per year to yield the maximum potential to emit $0.32 \text{ lb PE/hr} * 8,760 \text{ hr/yr} * 1 \text{ ton}/2,000 \text{ lbs} = 1.4 \text{ ton PE/yr}$.
 - b. Emission Limitation:
OC shall not exceed 0.88 lb/hr and 3.85 tons/yr.

Applicable Compliance Method:

Compliance with the hourly limitation shall be determined by calculation using the volatile content of the liquid resin (0.293 lbs/gallon) times the maximum liquid resins usage per

hour (3 gallons). $0.293 \text{ lbs OC/gallon} * 3 \text{ gallons/hr} = 0.88 \text{ lb OC/hr}$. Compliance with the annual emissions limitation is based on the maximum potential to emit of 8,760 hours per year times the maximum hourly emission rate. $0.88 \text{ lb OC/hr} * 8,760 \text{ hr/yr} * 1 \text{ ton}/2,000 \text{ lbs} = 3.85 \text{ tons OC/yr}$.

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Emissions Unit ID: P003

- c. **Emission Limitation:**
Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average.

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in section A.III.2. of this permit. If required, compliance shall be demonstrated by visible emissions monitoring performed in accordance with 40CFR Part 60, Appendix A, Method 9 using the methods and procedures specified in OAC rule 3745-17-03(B)(1).

F. Miscellaneous Requirements

None

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
P004 - Maxi compound shaker for filling gaylord boxes vented to baghouse (2.8 tons/hr)	OAC rule 3745-31-05(A)(3)	Particulate emissions (PE) shall not exceed 0.23 lb/hr and 1.0 ton/yr.
	OAC rule 3745-17-07(A)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A). Visible particulate emissions from the stack shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- 2.a The PE collection system shall achieve a minimum 99 % capture of fugitive PE and vent to a baghouse with an outlet loading not to exceed 0.02 grain/dscf.
- 2.b The 0.23 lb PE/hr and 1.0 ton PE/yr emission limitations were established to reflect the potential to emit of this emissions unit. Therefore, record keeping and reporting

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Emissions Unit ID: **P004**

requirements are not necessary to demonstrate compliance with these emission limitations.

B. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 3 inches of water while the emissions unit is in operation.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual. Once per day the permittee shall record the following in the operations log:
 - a. pressure drop across the baghouse for each day of operation, and
 - b. a log or record of downtime for the control device and monitoring equipment, when the associated emissions unit is in operation.

D. Reporting Requirements

1. In accordance with paragraph A.2.b. of the General Terms and Conditions the permittee shall submit quarterly deviation(excursion) reports for all exceedences during which the pressure drop across the baghouse did not comply with the allowable range specified in restriction 1, as determined through monitoring in C.1. above and any actions taken to return the pressure drop to a compliant operating range.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1. of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emissions Limitations:
PE shall not exceed 0.23 lb/hr and 1.0 ton/yr..

Applicable Compliance Method:

Compliance with the hourly limitation shall be determined by calculation to meet an outlet grain loading of 0.02 gr/dscf at an air flow of 1350 dscf/min times 60 min/hr times 7000 gr/lb equal 0.23 lb/hr. Compliance with the annual emissions limitation is based on the maximum hourly emission rate of 0.23 lb PE/hr times 8,760 hours per year to yield the

maximum potential to emit. $0.23 \text{ lb PE/hr} * 8,760 \text{ hr/yr} * 1 \text{ ton}/2,000 \text{ lbs} = 1.0 \text{ ton/yr}$.

- b. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average.

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in section A.III.2. of this permit. If required, compliance shall be demonstrated by visible emissions monitoring performed in accordance with 40CFR Part 60, Appendix A, Method 9 using the methods and procedures specified in OAC rule 3745-17-03(B)(1).

F. Miscellaneous Requirements

None

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operations(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 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>
P005 - 2 Mini mixers and shakers for filling gaylord boxes vented to baghouse (1.4 tons/hr)	OAC rule 3745-31-05(A)(3)	Particulate emissions (PE) shall not exceed 0.23 lb/hr and 1.0 ton/yr.
	OAC rule 3745-17-07(A)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A). Visible particulate emissions from the stack shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- 2.a The PE collection system shall achieve a minimum 99 % capture of fugitive PE and vent to a baghouse with an outlet loading not to exceed 0.02 grain/dscf.
- 2.b The 0.23 lb PE/hr and 1.0 ton PE/yr emission limitations were established to reflect the potential to emit of this emissions unit. Therefore, record keeping and reporting requirements are not necessary to demonstrate compliance with these emission limitations

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Issued: 5/21/2002

Emissions Unit ID: **P005**

B. Operational Restrictions

1. The pressure drop across baghouse shall be maintained within the range of 1 to 3 inches of water while the emissions unit is in operation.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual. Once per day the permittee shall record the following in the operations log:
 - a. pressure drop across the baghouse for each day of operation, and
 - b. a log or record of downtime for the control device and monitoring equipment, when the associated emissions unit is in operation.

D. Reporting Requirements

1. In accordance with paragraph A.2.b. of the General Terms and Conditions the permittee shall submit quarterly deviation(excursion) reports for all exceedences during which the pressure drop across the baghouse did not comply with the allowable range specified in restriction 1, as determined through monitoring in C.1. above and any actions taken to return the pressure drop to a compliant operating range.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1. of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emissions Limitations-
PE shall not exceed 0.23 lb/hr and 1.0 ton/yr.

Applicable Compliance Method-

Compliance with the hourly limitation shall be determined by calculation to meet an outlet grain loading of 0.02 gr/dscf at an air flow of 1350 dscf/min times 60 min/hr times 7000 gr/lb equal 0.23 lb/hr. Compliance with the annual emissions limitation is based on the maximum hourly emission rate of 0.23 lb PE/hr times 8,760 hours per year to yield the

maximum potential to emit. $0.23 \text{ lb PE/hr} * 8,760 \text{ hr/yr} * 1 \text{ ton}/2,000 \text{ lbs} = 1.0 \text{ ton/yr}$.

- b. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average.

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in section A.III.2. of this permit. If required, compliance shall be demonstrated by visible emissions monitoring performed in accordance with 40CFR Part 60, Appendix A, Method 9 using the methods and procedures specified in OAC rule 3745-17-03(B)(1).

F. Miscellaneous Requirements

None

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
P006 - Maxi mixer for mixing plastic resin and minor ingredients vented to baghouse (2.8 tons/hr)	OAC rule 3745-31-05(A)(3)	Particulate emissions (PE) shall not exceed 0.32 lb/hr and 1.4 tons/yr. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A).
	OAC rule 3745-17-07(A)	Visible particulate emissions from the stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- 2.a The PE collection system shall achieve a minimum 99 % capture of fugitive PE and vent to a baghouse with an outlet loading not to exceed 0.02 grain/dscf.
- 2.b The 0.32 lb PE/hr and 1.4 tons PE/yr emission limitations were established to reflect the potential to emit of this emissions unit. Therefore, record keeping and reporting requirements are not necessary to demonstrate compliance with these emission limitations

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Crane

PTI A

Issued: 5/21/2002

Emissions Unit ID: **P006**

B. Operational Restrictions

1. The pressure drop across baghouse shall be maintained within the range of 1 to 3 inches of water while the emissions unit is in operation.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual. Once per day the permittee shall record the following in the operations log:
 - a. pressure drop across the baghouse for each day of operation, and
 - b. a log or record of downtime for the control device and monitoring equipment, when the associated emissions unit is in operation.

D. Reporting Requirements

1. In accordance with paragraph A.2.b. of the General Terms and Conditions the permittee shall submit quarterly deviation(excursion) reports for all exceedences during which the pressure drop across the baghouse did not comply with the allowable range specified in restriction 1, as determined through monitoring in C.1. above and any actions taken to return the pressure drop to a compliant operating range.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1. of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emissions Limitations-
PE shall not exceed 0.32 lb/hr and 1.4 ton/yr.

Applicable Compliance Method-

Compliance with the hourly limitation shall be determined by calculation to meet an outlet grain loading of 0.02 gr/dscf at an air flow of 1848 dscf/min times 60 min/hr times 7000 gr/lb equal 0.32 lb/hr. Compliance with the annual emissions limitation is based on the maximum hourly emission rate of 0.32 lb PE/hr times 8,760 hours per year to yield the

maximum potential to emit $0.32 \text{ lb PE/hr} * 8,760 \text{ hr/yr} * 1 \text{ ton}/2,000 \text{ lbs} = 1.4 \text{ ton PE/yr}$.

- b. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average.

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in section A.III.2. of this permit. If required, compliance shall be demonstrated by visible emissions monitoring performed in accordance with 40CFR Part 60, Appendix A, Method 9 using the methods and procedures specified in OAC rule 3745-17-03(B)(1).

F. Miscellaneous Requirements

None