OhioEPA

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

09/12/01

RE: Proposed Title V Chapter 3745-77 Permit
01-24-01-0112
Crane Cor Tec Company

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

Dear Ms. Damico:

The proposed issuance of the Title V permit for Crane Cor Tec Company, has been created in Ohio EPA's State Air Resources System (STARS) on 09/12/01, 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

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

cc: Central District Office
File, DAPC PMU

State of Ohio Environmental Protection Agency

PROPOSED TITLE V PERMIT

Issue Date: 09/12/01	Effective Date: To be entered upon final issuance	Expiration Date: To be entered upon final issuance

This document constitutes issuance of a Title V permit for Facility ID: 01-24-01-0112 to:
Crane Cor Tec Company
2351 Kenskill Ave.
Washington Court House, OH 43160

Emissions Unit ID (Company ID)/Emissions Unit Activity Description

P002 (Saw #1)
Plant 2 Sawing Operations - Saw #1

P003 (Saw #2)
Plant 2 Sawing Operations - Saw #2

P004 (Rodgers Saw)
Plant 2 Sawing Operations - Rodgers Saw

P009 (Trough Drying)
Trough Drying Cabinet

P011 (EnCor Line)
Polyester Resin Core Production Previously insignificant emissions unit (Z001)

P012 (Trough Drying Unit #2)
Trough Drying Unit #2

R001 (Gelcoat)
Gelcoating operation controlled with primary and secondary enclosures and a catalytic incinerator

R003 (Lamination Table #1)
Resin Application and Vacuum Curing

R004 (Lamination Table #2)
Resin Application and Vacuum Curing

R005 (Lamination Table #3)
Resin Application and Vacuum Curing

R006 (Lamination Table #4)
Resin Application and Vacuum Curing

R007 (Lamination Table #5)
Resin Application and Vacuum Curing

R008 (Lamination Table #6)
Resin Application and Vacuum Curing

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:

Central District Office
3232 Alum Creek Drive
PO Box 1049
Columbus, OH 43216-1049
(614) 728-3778

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 <u>emission limitations</u>, <u>operational restrictions</u>, <u>and control device operating parameter limitations</u>, 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 <u>monitoring</u>, <u>recordkeeping</u>, <u>and reporting requirements</u> 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 <u>Federally Enforceable</u> 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

1. This facility is subject to the applicable requirements specified in OAC Chapter 3745-25. In accordance with Ohio EPA Engineering Guide #64, the emission control action programs, as specified in OAC rule 3745-25-03, shall be developed and submitted within 60 days after receiving notification from the Ohio EPA.

B. State Only Enforceable Section

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

R002 - Scuff adhesive application;
B001 - Plant 1 heater;
Z003 - trough filling;
Z005 - edgecoat application;
Z006 - speed putty application; and
P001 - resin mix area.

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emission 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: Saw #1 (P002)

Activity Description: Plant 2 Sawing Operations - Saw #1

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Plant 2 sawing operations controlled with a cyclone and settling chamber - Saw # 1	OAC rule 3745-31-05(A)(3) (PTI # 01-7316)	Particulate emissions shall not exceed 0.05 grain per dry standard cubic foot. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A) and 3745-17-11(B)(3).
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(3)	Particulate emissions shall not exceed 6.5 pounds per hour from emissions units P002, P003 and P004 combined. See A.I.2.a below.

2. Additional Terms and Conditions

2.a Pursuant to OAC rule 3745-17-11(A)(3), the 6.5 pounds per hour emission limitation was developed from Figure II of OAC rule 3745-17-11(B)(3) and is based upon emission tests conducted to determine the uncontrolled mass rate of emissions (UMRE).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

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

2. Emission Limitation: Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

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

3. Emission Limitations: Particulate emissions shall not exceed 6.5 pounds per hour from emissions units P002, P003 and P004 combined. Particulate emissions shall not exceed 0.05 grain per dry standard cubic foot.

Applicable Compliance Method: The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

i. The emission testing shall be conducted within 3 months after issuance of the permit and within 6 months prior to permit expiration.

ii. The emission testing shall be conducted to demonstrate compliance with the allowable particulate mass emission limitations. Particulate emission tests also shall be conducted at the inlet of the control device to determine the UMRE for the emissions units.

iii. The following test methods shall be employed to demonstrate compliance with the allowable particulate mass emission limitations: Methods 1-5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

iv. The test(s) shall be conducted while emissions units P002, P003 and P004 are operating at or near their maximum capacity, unless otherwise specified or approved by the Ohio EPA, Central District Office.

V. Testing Requirements (continued)

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Central District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, Central District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central District Office within 30 days following completion of the test(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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: Saw #2 (P003)

Activity Description: Plant 2 Sawing Operations - Saw #2

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Plant 2 sawing operations controlled with a cyclone and settling chamber - Saw # 2	OAC rule 3745-31-05(A)(3) (PTI # 01-7316)	Particulate emissions shall not exceed 0.05 grain per dry standard cubic foot. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A) and 3745-17-11(B)(3).
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(3)	Particulate emissions shall not exceed 6.5 pounds per hour from emissions units P002, P003 and P004 combined. See A.I.2.a below.

2. Additional Terms and Conditions

2.a Pursuant to OAC rule 3745-17-11(A)(3), the 6.5 pounds per hour emission limitation was developed from Figure II of OAC rule 3745-17-11(B)(3) and is based upon emission tests conducted to determine the uncontrolled mass rate of emissions (UMRE).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

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

2. Emission Limitation: Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

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

3. Emission Limitations: Particulate emissions shall not exceed 6.5 pounds per hour from emissions units P002, P003 and P004 combined. Particulate emissions shall not exceed 0.05 grain per dry standard cubic foot.

Applicable Compliance Method: The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

i. The emission testing shall be conducted within 3 months after issuance of the permit and within 6 months prior to permit expiration.

ii. The emission testing shall be conducted to demonstrate compliance with the allowable particulate mass emission limitations. Particulate emission tests also shall be conducted at the inlet of the control device to determine the UMRE for the emissions units.

iii. The following test methods shall be employed to demonstrate compliance with the allowable particulate mass emission limitations: Methods 1-5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

iv. The test(s) shall be conducted while emissions units P002, P003 and P004 are operating at or near their maximum capacity, unless otherwise specified or approved by the Ohio EPA, Central District Office.

V. Testing Requirements (continued)

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Central District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, Central District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central District Office within 30 days following completion of the test(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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: Rodgers Saw (P004)

Activity Description: Plant 2 Sawing Operations - Rodgers Saw

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Plant 2 sawing operations controlled with a cyclone and settling chamber - Rodgers Saw	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(3)	Particulate emissions shall not exceed 6.5 pounds per hour from emissions units P002, P003 and P004 combined. See A.I.2.a below.

2. Additional Terms and Conditions

2.a Pursuant to OAC rule 3745-17-11(A)(3), the 6.5 pounds per hour emission limitation was developed from Figure II of OAC rule 3745-17-11(B)(3) and is based upon emission tests conducted to determine the uncontrolled mass rate of emissions (UMRE).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

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

2. Emission Limitation: Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

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

3. Emission Limitation: Particulate emissions shall not exceed 6.5 pounds per hour from emissions units P002, P003 and P004 combined.

Applicable Compliance Method: The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

i. The emission testing shall be conducted within 3 months after issuance of the permit and within 6 months prior to permit expiration.

ii. The emission testing shall be conducted to demonstrate compliance with the allowable particulate mass emission limitation. Particulate emission tests also shall be conducted at the inlet of the control device to determine the UMRE for the emissions units.

iii. The following test methods shall be employed to demonstrate compliance with the allowable particulate mass emission limitation: Methods 1-5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

iv. The test(s) shall be conducted while emissions units P002, P003 and P004 are operating at or near their maximum capacity, unless otherwise specified or approved by the Ohio EPA, Central District Office.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Central District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, Central District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central District Office within 30 days following completion of the test(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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: Trough Drying (P009)

Activity Description: Trough Drying Cabinet

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
trough drying cabinet	OAC rule 3745-21-07(G)(2)	Organic compound emissions shall not exceed 8 pounds per hour and 40 pounds per day.

2. Additional Terms and Conditions

None

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 the trough drying operation:

a. The company identification for each resin and photochemically reactive cleanup material employed.

b. The organic compound emission rate from the 8-foot troughs charged to the drying booth, in pounds, i.e., the number of 8-foot troughs times the emission factor (in lbs OC/trough) from the most recent emission tests showing compliance. (The last emission tests were conducted on April 29 and 30, 1993. The emission factor for the 8-foot trough was .298 lb OC/trough.)

c. The organic compound emission rate from the 10-foot troughs charged to the drying booth, in pounds, i.e., the number of 10-foot troughs times the emission factor (in lbs OC/trough) from the most recent emission tests showing compliance. (The last emission tests were conducted on April 29 and 30, 1993. The emission factor for the 10-foot trough was .455 lb OC/trough.)

d. The organic compound emission rate from the photochemically reactive cleanup materials employed, in pounds, i.e., for all photochemically reactive cleanup materials employed, the sum of the products of the number of gallons times the organic compound content.

e. The total organic compound emission rate from the troughs and photochemically reactive cleanup materials, in pounds, i.e, the sum of (b), (c) and (d) above.

f. The total number of hours the emissions unit was in operation. ("Operation" shall mean the period of time when the first trough is placed in the trough drying cabinet until one hour after the last trough is placed in the trough drying cabinet.)

g. The average hourly organic compound emission rate for all coatings and photochemically reactive cleanup materials, i.e., (e)/(f), in pounds per hour (average).

[Note: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit. Also, the definition of "photochemically reactive" is based upon OAC rule 3745-21-01(C)(5).]

IV. Reporting Requirements

1. In accordance with Section A.1.c.ii of the General Terms and Conditions, 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 coatings and photochemically reactive cleanup materials 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 coatings and photochemically reactive cleanup materials exceeded 40 pounds per day, and the actual organic compound emissions for each such day.

V. Testing Requirements

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

Emission Limitations: Organic compound emissions shall not exceed 8 pounds per hour and 40 pounds per day.

Applicable Compliance Method: Compliance may be based on the record keeping requirements as specified in Section A.III.1.

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 18, 25 or 25A, as appropriate.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EnCor Line (P011)

Activity Description: Polyester Resin Core Production Previously insignificant emissions unit (Z001)

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Encor line controlled with a dust collection system, permanent total enclosure, and a catalytic incinerator.	OAC rule 3745-31-05(A)(3)	Organic compound emissions shall not exceed 2.5 pounds per hour. Visible particulate emissions shall not exceed 10% opacity as a 6-minute average. Particulate emissions shall not exceed 0.10 pound per hour. Organic compound emissions shall not exceed 4.1 tons per year. Particulate emissions shall not exceed 0.42 ton per year. See A.I.2.a through A.I.2.c below.
	OAC rule 3745-21-07(G)(2) OAC rule 3745-21-07(G)(6) OAC rule 3745-17-07(A) OAC rule 3745-17-11(B)	The emission limitations specified in these regulations are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

2.a Organic compound emissions from this emissions unit shall be reduced overall by a minimum of 90%.

2.b The permanent total enclosure (PTE) associated with this emissions unit shall be continuously maintained in such a manner as to meet the criteria established for a PTE in method 204 (40 CFR Part 51, Appendix M) when the emissions unit is in operation.

2.c The PTE associated with this emissions unit demonstrated that it meets the criteria established for a PTE in method 204. The permittee performed an additional demonstration to show that the PTE could not be compromised, under normal plant conditions, when the emissions unit was in operation (i.e., the air flow through the PTE to the control device was always maintained under negative pressure even when all additional egress points (non-natural draft openings) which could affect the PTE were opened). Therefore, the permittee will not be required to perform any additional monitoring, record keeping, and reporting to ensure the ongoing integrity of the PTE.

II. Operational Restrictions

1. The pressure drop across the dust collection system shall be maintained within the range of 2.0 to 8.0 inches of water while the emissions unit is in operation.

2. The temperature of the exhaust gases at the inlet to the catalyst bed of the incinerator, when the emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated that the emissions unit was in compliance.

3. This emissions unit shall not employ more than 6,000,000 pounds of resin per year and 1,800 pounds of resin per hour.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the temperature immediately upstream of the incinerator's catalyst bed when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

2. The permittee shall properly operate and maintain equipment to continuously monitor the pressure drop across the dust collection system while the emissions unit is in operation. The monitoring device shall be capable of accurately measuring the desired parameter. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

3. The permittee shall collect and record the following information for each day:

a. The amount of resin employed in this emissions unit, in pounds.

b. The company identification for each resin employed.

c. The number of gallons of each resin employed.

d. The organic compound content of each resin, in pounds per gallon.

e. The total controlled organic compound emission rate for all resins, in pounds or tons (i.e., calculated using the overall control efficiency from the most recent emission tests that demonstrated that the emissions unit was in compliance).

f. The total number of hours the emissions unit was in operation.

g. The average hourly organic compound emission rate for all resins, i.e., (e)/(f), in pounds per hour.

h. The average hourly resin usage rate for all resins, i.e., (a)/(f), in pounds per hour.

i. All 3-hour blocks of time during which the emissions unit was in operation and the temperature of the exhaust gases at the inlet to the catalyst bed was more than 50 degrees Fahrenheit below the average temperature during the most recent emission tests that demonstrated that the emissions unit was in compliance.

j. A log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:

a. Any hour during which more than 1800 pounds of resin were employed.

b. An identification of each day during which the average hourly organic compound emissions exceeded 2.5 pounds per hour, and the actual average hourly organic compound emissions for each such day.

c. All 3-hour blocks of time during which the emissions unit was in operation and the temperature of the exhaust gases at the inlet to the catalyst bed was more than 50 degrees Fahrenheit below the average temperature during the most recent emission tests that demonstrated that the emissions unit was in compliance.

d. All periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in Section A.II.1.

2. The quarterly deviation (excursion) reports shall be submitted in accordance with General Term and Condition A.1.c.ii.

3. The permittee shall submit quarterly summaries that include a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation. These quarterly reports shall be submitted by April 30, July 31, October 31, and January 31, and shall cover the records for the previous calendar quarters.

4. The permittee shall also submit annual reports that specify the total organic compound emissions, the total particulate emissions, and the resin usage from this emissions unit for the previous calendar year. These reports shall be submitted by April 15 of each year. For this reporting requirement, the permittee may provide the required information through the annual emission fee report, required pursuant to OAC rule 3745-78-02, provided that the emission data in the fee report is emissions unit specific.

V. Testing Requirements

1. The permittee shall conduct or have conducted, organic compound emission testing for this emissions unit in accordance with the following requirements:

a. The emission testing shall be conducted within 6 months prior to permit expiration.

b. The organic compound emission test(s) shall be conducted while this emissions unit and R001 are venting to the catalytic incinerator. Each emissions unit shall be operated at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Central District Office. The temperature immediately upstream of the incinerator's catalyst bed shall be continuously monitored and recorded during the emission test(s).

c. The pressure drop across the dust collection system shall be continuously monitored and recorded periodically during the emission test(s).

d. The following test method(s) shall be employed to determine the control efficiency for organic compounds:

e. The control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-21-10(C). The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentration, and on a consideration of the potential presence of interfering gases.

V. Testing Requirements (continued)

f. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Central District Office's refusal to accept the results of the emission test(s).

g. Personnel from the Ohio EPA, Central District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

h. A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Central District Office.

2. Emission Limitation: Organic compound emissions shall not exceed 2.5 pounds per hour.

Applicable Compliance Method: Compliance shall be based upon the record keeping requirements specified in Section A.III and the most recent emission testing.

3. Emission Limitation: Particulate emissions shall not exceed 0.10 pound per hour.

Applicable Compliance Method: Compliance shall be based upon the record keeping requirements specified in Section A.III. If required, the permittee shall demonstrate compliance with this emission limitation through emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

4. Emission Limitation: Organic compound emissions shall not exceed 4.1 tons per year.

Applicable Compliance Method: Compliance shall be based upon the record keeping requirements specified in Section A.III.

5. Emission Limitation: Particulate emissions shall not exceed 0.42 ton per year.

Applicable Compliance Method: Compliance shall be based upon the record keeping requirements specified in Section A.III.

6. Emission Limitation: Visible particulate emissions shall not exceed 10% opacity as a 6-minute average.

Applicable Compliance Method: Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

7. The organic content of the resins utilized in this process shall be determined in accordance with the resin supplier's MSDS sheets. If required, the permittee shall conduct or have the resin supplier conduct an analysis of any resin employed in this emissions unit in accordance with 40 CFR Part 60, Appendix A, Method 24.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: Trough Drying Unit #2 (P012)

Activity Description: Trough Drying Unit #2

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
trough drying unit - Unit #2	OAC rule 3745-31-05(A)(3)	Organic compound emissions shall not exceed 7.3 tons per year. The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-07(G)(2).
	OAC rule 3745-21-07(G)(2)	Organic compound emissions shall not exceed 8 pounds per hour and 40 pounds per day.

2. Additional Terms and Conditions

None

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 the trough drying operation:

a. The company identification for each resin and photochemically reactive cleanup material employed.

b. The number of 8-foot troughs placed in the drying unit.

c. The number of 10-foot troughs placed in the drying unit.

d. The organic compound emission rate from the 8-foot troughs, in pounds per day, i.e., the value from (b) multiplied by the pound(s) of organic compounds per trough emission factor developed during the emission tests that were conducted on April 14 and 15, 1993. The emission factor for the 8-foot trough was .298 pound of organic compounds per trough. If a revised emission factor for the 8-foot troughs is developed pursuant to Section A.V.2, the revised emission factor shall supercede the emission factor established in April of 1993.

e. The organic compound emission rate from the 10-foot troughs, in pounds per day, i.e., the value from (c) multiplied by the pound(s) of organic compounds per trough emission factor developed during the emission tests that were conducted on April 29 and 30, 1993. The emission factor for the 10-foot trough was .455 pound of organic compounds per trough. If a revised emission factor for the 10-foot troughs is developed pursuant to Section A.V.2, the revised emission factor shall supercede the emission factor established in April of 1993.

f. The number of gallons of each photochemically reactive cleanup material employed.

g. The organic compound content of each photochemically reactive cleanup material, in pounds per gallon.

h. The organic compound emission rate for all photochemically reactive cleanup materials employed, in pounds per day.

i. The total organic compound emission rate from the troughs and photochemically reactive cleanup materials, in pounds per day, i.e, the sum of (d), (e) and (h) above.

j. The total number of hours the emissions unit was in operation. ("Operation" shall mean the period of time when the first trough is placed in the trough drying unit until one hour after the last trough is placed in the trough drying unit.)

k. The average hourly organic compound emission rate for all troughs and photochemically reactive cleanup materials, i.e., (i)/(j), in pounds per hour (average).

2. The permittee shall collect and record the following information for the purpose of determining annual organic compound emissions:

a. The company identification for each nonphotochemically reactive cleanup material employed.

b. The number of gallons of each nonphotochemically reactive cleanup material employed.

c. The organic compound content of each nonphotochemically reactive cleanup material, in pounds per gallon.

d. The total organic compound emission rate for all nonphotochemically reactive cleanup materials, in pounds.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include the following information:

a. An identification of each day during which the average hourly organic compound emissions from the troughs and photochemically reactive cleanup materials 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 troughs and photochemically reactive cleanup materials exceeded 40 pounds per day, and the actual organic compound emissions for each such day.

The quarterly deviation (excursion) reports shall be submitted in accordance with General Term and Condition A.1.c.ii.

2. The permittee shall submit annual reports that specify the total organic compound emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15 of each year. For this reporting requirement, the permittee may provide the required information through the annual emission fee report, required pursuant to OAC rule 3745-78-02, provided that the emission data in the fee report is emissions unit specific.

V. Testing Requirements

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

2. Emission Limitations: Organic compound emissions shall not exceed 8 pounds per hour and 40 pounds per day.

Applicable Compliance Method: Compliance may be based upon the record keeping requirements specified in Section A.III.1.

If required, by the Ohio EPA or USEPA, the permittee shall reestablish appropriate emission factors for the 8- and 10-foot troughs. The emission factors shall be determined using the trough gravimetric procedure as specified in Section 5.0 of the "Results of Gravimetric Testing for Emissions from Trough Drying Operations" prepared by Radian Corporation in April of 1993.

3. Emission Limitation: Organic compound emissions shall not exceed 7.3 tons per year.

Applicable Compliance Method: Compliance shall be based upon the record keeping requirements specified in Sections A.III.1 and A.III.2.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: Gelcoat (R001)

Activity Description: Gelcoating operation controlled with primary and secondary enclosures and a catalytic incinerator

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Gelcoating operation controlled with primary and secondary enclosures and a catalytic incinerator.	OAC rule 3745-31-05(A)(3)	Organic compound emissions (from all gelcoats) shall not exceed 11.7 pounds per hour. Organic compound emissions (from cleanup materials) shall not exceed 3.0 pounds per hour. Organic compound emissions (from all gelcoats) shall not exceed 14.7 tons per year. Organic compound emissions (from cleanup materials) shall not exceed 13.1 tons per year. See A.I.2.b, A.I.2.c, and A.II.6 below.
	OAC rule 3745-21-07(G)	See A.I.2.a below.

2. Additional Terms and Conditions

2.a This emissions unit is exempt from the provisions in OAC rule 3745-21-07(G) pursuant to OAC rule 3745-21-07(G)(9)(g) and the emission limitations established pursuant to OAC rule 3745-31-05.

2.b The catalytic incinerator controlling organic compound emissions from this emissions unit shall operate with a minimum control (destruction) efficiency of 90%.

2.c Organic compound emissions from this emissions unit shall be reduced overall by a minimum of 69.0%.

2.d The pound per hour organic compound emission limitation for the use of gelcoat (11.7 pounds per hour) represents the maximum restricted hourly emission rate; therefore, there are no additional record keeping or reporting requirements associated with this emission limitation.

2.e The secondary enclosure (as specified in Attachment A, with any modifications deemed necessary by the permittee) serving this emissions unit shall be employed whenever the emissions unit is in operation. The permittee shall not employ the powered roof ventilator in the secondary enclosure except to ensure that the styrene emission concentrations remain below the Permissible Exposure Limit required by OSHA.

II. Operational Restrictions

1. This emissions unit shall not operate more than 8 cycles per hour and shall not employ more than 480 pounds of gelcoat per hour. A cycle shall include all process steps from the lowering of the hood until the raising of the hood.

2. This emissions unit shall not employ more than 1,200,000 pounds of gelcoat per rolling, 12-month period.

3. The temperature of the exhaust gases at the inlet to the catalyst bed of the incinerator, when the emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission tests that demonstrated the emissions unit was in compliance.

4. Only acetone and/or dibasic ester consisting of 66% dimethyl glutarate, 17% dimethyl adipate, and 16.5% dimethyl succinate, by weight, shall be used as cleanup materials in this emissions unit.

5. The monomeric styrene content of the gelcoat utilized in this process shall not exceed 42%, by weight, as employed.

6. The permittee shall not employ more than 4 gallons of cleanup materials per day in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the temperature immediately upstream of the incinerator's catalyst bed when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

2. The permittee shall collect and record the following information for each day:

a. All 3-hour blocks of time during which the emissions unit was in operation and the temperature of the exhaust gases at the inlet to the catalyst bed was more than 50 degrees Fahrenheit below the average temperature during the most recent emission tests that demonstrated that the emissions unit was in compliance.

b. A log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

c. Number of cycles each hour.

d. The name and identification number of each gelcoat, as employed.

e. The number of pounds of each gelcoat employed.

f. The styrene content of each gelcoat employed, in percent, by weight.

g. Number of pounds of all gelcoats employed each hour.

h. The total number of pounds of cleanup materials (acetone and/or dibasic ester) employed, in pounds per day.

i. The organic compound emission rate for all cleanup materials (acetone and/or dibasic ester), 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 cleanup materials, i.e., (i)/(j), in pounds per hour.

l. The number of gallons of cleanup materials employed each day.

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

3. The permittee shall collect and record the following information for each month:

a. The number of pounds of all gelcoats employed.

b. The rolling, 12-month summation of all gelcoats employed, in pounds.

c. The total uncontrolled organic compound emission rate for all gelcoats, in pounds or tons per month.

d. The total uncontrolled (fugitive) organic compound emission rate for all gelcoats employed, in pounds or tons per month, i.e., (c) * (1 - (capture efficiency/100)).

e. The calculated, controlled organic compound emission rate for all gelcoats employed, in pounds or tons per month, i.e., (c) * (capture efficiency/100) * (1 - (control efficiency/100)).

f. The total organic compound emission rate for all gelcoats employed, in pounds or tons per month, i.e., (d) + (e).

g. The total organic compound emission rate for all cleanup materials employed, in pounds or tons per month, i.e., the summation of the daily values from Section A.III.2.f.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:

a. All 3-hour blocks of time during which the emissions unit was in operation and the temperature of the exhaust gases at the inlet to the catalyst bed was more than 50 degrees Fahrenheit below the average temperature during the most recent emission tests that demonstrated that the emissions unit was in compliance.

b. Any hour during which more than 480 pounds of gelcoat were employed.

c. Any hour during which this emissions unit was operated for more than 8 cycles.

d. An identification of each day during which the average hourly organic compound emissions for all cleanup materials exceeded 3.0 pounds per hour, and the actual average hourly organic compound emissions for each such day.

e. All periods of time during which the monomeric styrene content of the gelcoat employed in this emissions unit exceeded 42%, by weight.

f. An identification of each day during which more than 4 gallons of cleanup materials were employed.

The quarterly deviation (excursion) reports shall be submitted in accordance with General Term and Condition A.1.c.ii.

2. The permittee shall submit quarterly summaries that include a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation. These quarterly reports shall be submitted by April 30, July 31, October 31, and January 31, and shall cover the records for the previous calendar quarters.

3. The permittee shall submit annual reports that specify the total gelcoat usage, the total organic compound emissions from the use of gelcoat, and the total organic compound emissions from the use of cleanup materials from this emissions unit for the previous year. These reports shall be submitted by April 15 of each year. For this reporting requirement, the permittee may provide the required information through the annual emission fee report, required pursuant to OAC rule 3745-78-02, provided that the emission data in the fee report is emissions unit specific.

V. Testing Requirements

1. The permittee shall conduct or have conducted, organic compound emission testing for this emissions unit in accordance with the following requirements:

a. The emission testing shall be conducted within 6 months prior to permit expiration.

b. The test(s) shall be conducted while this emissions unit and P011 are venting organic compound emissions to the catalytic incinerator. Each emissions unit shall be operated at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Central District Office. The temperature immediately upstream of the incinerator's catalyst bed shall be continuously monitored and recorded during the emission test(s).

c. The following test method(s) shall be employed to determine compliance with the overall control efficiency limitation for organic compound emissions:

d. The capture efficiency shall be determined using methods 204 through 204F, as specified in 40 CFR Part 51, Appendix M, or the permittee may request to use an alternative method or procedure for the determination of capture efficiency in accordance with the USEPA's "Guidelines for Determining Capture Efficiency," dated January 9, 1995. (The Ohio EPA will consider the request, including an evaluation of the applicability, necessity, and validity of the alternative, and may approve the use of the alternative if such approval does not contravene any other applicable requirement.) The control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-21-10(C). The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentration, and on a consideration of the potential presence of interfering gases.

e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Central District Office's refusal to accept the results of the emission test(s).

f. Personnel from the Ohio EPA, Central District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

g. A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Central District Office.

2. Emission Limitation: Organic compound emissions (from all gelcoats) shall not exceed 11.7 pounds per hour.

Applicable Compliance Method: This emission limitation, as established in the above-referenced PTI, represents the maximum restricted hourly emission rate and was derived by summing the uncontrolled (fugitive) and controlled emissions for this emissions unit. The uncontrolled (fugitive) and controlled emissions were based upon the maximum restricted amount of gelcoat applied per hour (480 pounds), an organic compound emission factor developed from emission testing conducted prior to submittal of the PTI application (0.0789 pound per pound of gelcoat applied) and the minimum design capture and control efficiencies for the primary enclosure and catalytic incinerator (76.7 and 90 percent, respectively). Compliance with the 11.7 pounds per hour emission limitation shall be based upon the emission testing conducted during September 2000 until the above-required emission testing is conducted.

V. Testing Requirements (continued)

3. Emission Limitation: Organic compound emissions (from cleanup materials) shall not exceed 3.0 pounds per hour.

Applicable Compliance Method: Compliance shall be based upon the record keeping requirements specified in Section A.III.2. The organic compound emission rate for the cleanup materials utilized in this process (acetone and/or dibasic ester) shall be based upon a summation of the organic compound emission rates for acetone and dibasic ester as determined in accordance with the following procedure. The usage rate of acetone shall be multiplied by the emission factor of 1.0 pound of acetone emitted per pound of acetone used. The usage rate of dibasic ester shall be multiplied by the emission factor of 0.00717 pound of dibasic ester emitted per pound of dibasic ester used.

4. Emission Limitation: Organic compound emissions (from all gelcoats) shall not exceed 14.7 tons per year.

Applicable Compliance Method: Compliance shall be based upon a summation of the monthly records specified in Section A.III.3.f.

5. Emission Limitation: Organic compound emissions (from cleanup materials) shall not exceed 13.1 tons per year.

Applicable Compliance Method: Compliance shall be based upon a summation of the monthly records specified in Section A.III.3.g.

6. The monomeric styrene content of the gelcoat utilized in this process shall be determined in accordance with the gelcoat supplier's MSDS sheets. If required, the permittee shall conduct or have the gelcoat supplier conduct an analysis of any gelcoat employed in this emissions unit in accordance with 40 CFR Part 60, Appendix A, Method 24. When Method 24 is used, the weight percent monomer shall be taken to be the weight percent volatiles of the uncatalyzed resin. In the event of a discrepancy between the MSDS data and the analyses performed in accordance with 40 CFR Part 60, Appendix A, Method 24, the Method 24 data will take precedence.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: Lamination Table #1 (R003)

Activity Description: Resin Application and Vacuum Curing

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
panel lamination operation - resin application and vacuum curing - Lamination Table #1	OAC rule 3745-21-07(G)(2)	Organic compound emissions shall not exceed 8 pounds per hour and 40 pounds per day when the oven is not in use.
	OAC rule 3745-21-07(G)(1)	Organic compound emissions shall not exceed 3 pounds per hour and 15 pounds per day when the oven is in use.

2. Additional Terms and Conditions

2.a The monomeric styrene content of the resin utilized in this process shall not exceed 33%, by weight, as employed.

II. Operational Restrictions

1. Only acetone shall be used as a cleanup material in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day for the panel lamination assembling operation:

a. The name and identification number of each resin employed.

b. Documentation on whether or not the resin is a photochemically reactive material.*

c. The number of pounds of resin employed each hour.

d. The total number of pounds of resin employed during the day.

e. The total number of pounds of acetone employed during the day.**

f. The organic compound emission rate for acetone, in pounds per day. (For this emissions unit, the uncontrolled emission rate represents the amount of material employed minus the amount that was recycled.)**

g. The organic compound emission rate for the resin, in pounds per hour, for each hour of operation, i.e., lbs of resin/hr x the emission factor from the most recent emission tests showing compliance. The emission factor from the last emission tests conducted on March 8, 1994 was .00268 lb OC/lb resin.

h. The organic compound emission rate for the resin, in pounds per day, i.e., lbs of resin/day x the emission factor developed from the most recent emission tests showing compliance. The emission factor from the last emission tests conducted on March 8, 1994 was .00268 lb OC/lb resin.

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

** This term will not be used as a basis for any enforcement action. It has been included for informational purposes to identify the types of records that must be kept by the permittee to document and calculate the annual emissions for the emissions unit.

2. The permittee shall collect and record the following information each day when the oven is in use:

a. The total number of hours this emissions unit was in operation and subject to OAC rule 3745-21-07(G)(1). ("Operation" shall mean the sum of all time periods beginning with the placement of the oven over the table and ending when the oven is removed from the table.)

b. The organic compound emission rate during oven operation, in pounds per day, i.e., (a) x the hourly emission rate developed from the most recent emission tests showing compliance. The hourly emission rate from the last emission tests conducted on May 16, 1991 was .64 lb/hr.

c. The monomeric styrene content of each resin employed, in percent by weight.

IV. Reporting Requirements

1. In accordance with Section A.1.c.ii of the General Terms and Conditions, the permittee shall submit quarterly deviation (excursion) reports which include the following information:

a. an identification of each hour during which the hourly organic compound emission rate from the panel lamination process exceeded 8 pounds per hour, and the actual hourly organic compound emission rate for each such hour;

b. an identification of each day during which the organic compound emission rate from the panel lamination process exceeded 40 pounds per day, and the actual organic compound emission rate for each such day;

c. an identification of each day during which the organic compound emission rate for the oven exceeded 15 pounds per day, and the actual organic compound emission rate for the oven for each such day; and

d. any increase above 33%, by weight, of the styrene content of the resin employed in this emissions unit.

V. Testing Requirements

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

Emission Limitations: Organic compound emissions shall not exceed 8 pounds per hour and 40 pounds per day when the oven is not in use.
Applicable Compliance Method: Compliance shall be based on the record keeping requirements as specified in Section A.III.1 and periodic gravimetric testing.

Emission Limitations: Organic compound emissions shall not exceed 3 pounds per hour and 15 pounds per day when the oven is in use.
Applicable Compliance Method: Compliance shall be based on the record keeping requirements as specified in Section A.III.2 and periodic emission testing.

2. Provided the manufacturing process remains identical for all 6 lamination tables (emissions units R003 through R008), the permittee shall conduct or have conducted, emission testing on one of these emissions units in accordance with the following requirements:

a. The emission testing shall be conducted within 3 months after issuance of the permit and within 6 months prior to the permit expiration.

b. The emission testing shall be conducted to demonstrate compliance with the organic compound emission limitations specified in this permit.

c. The test methods which must be employed to demonstrate compliance with the organic compound emission limitations are specified below.

Compliance with the 3 pounds per hour organic compound emission limitation specified in this permit shall be demonstrated through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 18, 25 or 25A, as appropriate.

Compliance with the 8 pounds per hour organic compound emission limitation specified in this permit shall be demonstrated through gravimetric testing. The gravimetric testing shall be consistent with the procedures and methods specified in the Intent to Test dated February 28, 1994.

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

3. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s).

4. The monomeric styrene content of the resins utilized in this process shall be determined in accordance with the resin supplier's MSDS sheets. If required, the permittee shall conduct or have the resin supplier conduct an analysis of any resin employed in this emissions unit in accordance with 40 CFR Part 60, Appendix A, Method 24. When Method 24 is used, the weight percent monomer shall be taken to be the weight percent volatiles of the uncatalyzed resin. In the event of a discrepancy between the MSDS data and the analyses performed in accordance with 40 CFR Part 60, Appendix A, Method 24, the Method 24 data will take precedence.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: Lamination Table #2 (R004)

Activity Description: Resin Application and Vacuum Curing

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
panel lamination operation - resin application and vacuum curing - Lamination Table #2	OAC rule 3745-21-07(G)(2)	Organic compound emissions shall not exceed 8 pounds per hour and 40 pounds per day when the oven is not in use.
	OAC rule 3745-21-07(G)(1)	Organic compound emissions shall not exceed 3 pounds per hour and 15 pounds per day when the oven is in use.

2. Additional Terms and Conditions

2.a The monomeric styrene content of the resin utilized in this process shall not exceed 33%, by weight, as employed.

II. Operational Restrictions

1. Only acetone shall be used as a cleanup material in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day for the panel lamination assembling operation:

a. The name and identification number of each resin employed.

b. Documentation on whether or not the resin is a photochemically reactive material.*

c. The number of pounds of resin employed each hour.

d. The total number of pounds of resin employed during the day.

e. The total number of pounds of acetone employed during the day.**

f. The organic compound emission rate for acetone, in pounds per day. (For this emissions unit, the uncontrolled emission rate represents the amount of material employed minus the amount that was recycled.)**

g. The organic compound emission rate for the resin, in pounds per hour, for each hour of operation, i.e., lbs of resin/hr x the emission factor from the most recent emission tests showing compliance. The emission factor from the last emission tests conducted on March 8, 1994 was .00268 lb OC/lb resin.

h. The organic compound emission rate for the resin, in pounds per day, i.e., lbs of resin/day x the emission factor developed from the most recent emission tests showing compliance. The emission factor from the last emission tests conducted on March 8, 1994 was .00268 lb OC/lb resin.

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

** This term will not be used as a basis for any enforcement action. It has been included for informational purposes to identify the types of records that must be kept by the permittee to document and calculate the annual emissions for the emissions unit.

2. The permittee shall collect and record the following information each day when the oven is in use:

a. The total number of hours this emissions unit was in operation and subject to OAC rule 3745-21-07(G)(1). ("Operation" shall mean the sum of all time periods beginning with the placement of the oven over the table and ending when the oven is removed from the table.)

b. The organic compound emission rate during oven operation, in pounds per day, i.e., (a) x the hourly emission rate developed from the most recent emission tests showing compliance. The hourly emission rate from the last emission tests conducted on May 16, 1991 was .64 lb/hr.

c. The monomeric styrene content of each resin employed, in percent by weight.

IV. Reporting Requirements

1. In accordance with Section A.1.c.ii of the General Terms and Conditions, the permittee shall submit quarterly deviation (excursion) reports which include the following information:

a. an identification of each hour during which the hourly organic compound emission rate from the panel lamination process exceeded 8 pounds per hour, and the actual hourly organic compound emission rate for each such hour;

b. an identification of each day during which the organic compound emission rate from the panel lamination process exceeded 40 pounds per day, and the actual organic compound emission rate for each such day;

c. an identification of each day during which the organic compound emission rate for the oven exceeded 15 pounds per day, and the actual organic compound emission rate for the oven for each such day; and

d. any increase above 33%, by weight, of the styrene content of the resin employed in this emissions unit.

V. Testing Requirements

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

Emission Limitations: Organic compound emissions shall not exceed 8 pounds per hour and 40 pounds per day when the oven is not in use.
Applicable Compliance Method: Compliance shall be based on the record keeping requirements as specified in Section A.III.1 and periodic gravimetric testing.

Emission Limitations: Organic compound emissions shall not exceed 3 pounds per hour and 15 pounds per day when the oven is in use.
Applicable Compliance Method: Compliance shall be based on the record keeping requirements as specified in Section A.III.2 and periodic emission testing.

2. Provided the manufacturing process remains identical for all 6 lamination tables (emissions units R003 through R008), the permittee shall conduct or have conducted, emission testing on one of these emissions units in accordance with the following requirements:

a. The emission testing shall be conducted within 3 months after issuance of the permit and within 6 months prior to the permit expiration.

b. The emission testing shall be conducted to demonstrate compliance with the organic compound emission limitations specified in this permit.

c. The test methods which must be employed to demonstrate compliance with the organic compound emission limitations are specified below.

Compliance with the 3 pounds per hour organic compound emission limitation specified in this permit shall be demonstrated through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 18, 25 or 25A, as appropriate.

Compliance with the 8 pounds per hour organic compound emission limitation specified in this permit shall be demonstrated through gravimetric testing. The gravimetric testing shall be consistent with the procedures and methods specified in the Intent to Test dated February 28, 1994.

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

3. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s).

4. The monomeric styrene content of the resins utilized in this process shall be determined in accordance with the resin supplier's MSDS sheets. If required, the permittee shall conduct or have the resin supplier conduct an analysis of any resin employed in this emissions unit in accordance with 40 CFR Part 60, Appendix A, Method 24. When Method 24 is used, the weight percent monomer shall be taken to be the weight percent volatiles of the uncatalyzed resin. In the event of a discrepancy between the MSDS data and the analyses performed in accordance with 40 CFR Part 60, Appendix A, Method 24, the Method 24 data will take precedence.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: Lamination Table #3 (R005)

Activity Description: Resin Application and Vacuum Curing

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
panel lamination operation - resin application and vacuum curing - Lamination Table #3	OAC rule 3745-21-07(G)(2)	Organic compound emissions shall not exceed 8 pounds per hour and 40 pounds per day when the oven is not in use.
	OAC rule 3745-21-07(G)(1)	Organic compound emissions shall not exceed 3 pounds per hour and 15 pounds per day when the oven is in use.

2. Additional Terms and Conditions

2.a The monomeric styrene content of the resin utilized in this process shall not exceed 33%, by weight, as employed.

II. Operational Restrictions

1. Only acetone shall be used as a cleanup material in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day for the panel lamination assembling operation:

a. The name and identification number of each resin employed.

b. Documentation on whether or not the resin is a photochemically reactive material.*

c. The number of pounds of resin employed each hour.

d. The total number of pounds of resin employed during the day.

e. The total number of pounds of acetone employed during the day.**

f. The organic compound emission rate for acetone, in pounds per day. (For this emissions unit, the uncontrolled emission rate represents the amount of material employed minus the amount that was recycled.)**

g. The organic compound emission rate for the resin, in pounds per hour, for each hour of operation, i.e., lbs of resin/hr x the emission factor from the most recent emission tests showing compliance. The emission factor from the last emission tests conducted on March 8, 1994 was .00268 lb OC/lb resin.

h. The organic compound emission rate for the resin, in pounds per day, i.e., lbs of resin/day x the emission factor developed from the most recent emission tests showing compliance. The emission factor from the last emission tests conducted on March 8, 1994 was .00268 lb OC/lb resin.

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

** This term will not be used as a basis for any enforcement action. It has been included for informational purposes to identify the types of records that must be kept by the permittee to document and calculate the annual emissions for the emissions unit.

2. The permittee shall collect and record the following information each day when the oven is in use:

a. The total number of hours this emissions unit was in operation and subject to OAC rule 3745-21-07(G)(1). ("Operation" shall mean the sum of all time periods beginning with the placement of the oven over the table and ending when the oven is removed from the table.)

b. The organic compound emission rate during oven operation, in pounds per day, i.e., (a) x the hourly emission rate developed from the most recent emission tests showing compliance. The hourly emission rate from the last emission tests conducted on May 16, 1991 was .64 lb/hr.

c. The monomeric styrene content of each resin employed, in percent by weight.

IV. Reporting Requirements

1. In accordance with Section A.1.c.ii of the General Terms and Conditions, the permittee shall submit quarterly deviation (excursion) reports which include the following information:

a. an identification of each hour during which the hourly organic compound emission rate from the panel lamination process exceeded 8 pounds per hour, and the actual hourly organic compound emission rate for each such hour;

b. an identification of each day during which the organic compound emission rate from the panel lamination process exceeded 40 pounds per day, and the actual organic compound emission rate for each such day;

c. an identification of each day during which the organic compound emission rate for the oven exceeded 15 pounds per day, and the actual organic compound emission rate for the oven for each such day; and

d. any increase above 33%, by weight, of the styrene content of the resin employed in this emissions unit.

V. Testing Requirements

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

Emission Limitations: Organic compound emissions shall not exceed 8 pounds per hour and 40 pounds per day when the oven is not in use.
Applicable Compliance Method: Compliance shall be based on the record keeping requirements as specified in Section A.III.1 and periodic gravimetric testing.

Emission Limitations: Organic compound emissions shall not exceed 3 pounds per hour and 15 pounds per day when the oven is in use.
Applicable Compliance Method: Compliance shall be based on the record keeping requirements as specified in Section A.III.2 and periodic emission testing.

2. Provided the manufacturing process remains identical for all 6 lamination tables (emissions units R003 through R008), the permittee shall conduct or have conducted, emission testing on one of these emissions units in accordance with the following requirements:

a. The emission testing shall be conducted within 3 months after issuance of the permit and within 6 months prior to the permit expiration.

b. The emission testing shall be conducted to demonstrate compliance with the organic compound emission limitations specified in this permit.

c. The test methods which must be employed to demonstrate compliance with the organic compound emission limitations are specified below.

Compliance with the 3 pounds per hour organic compound emission limitation specified in this permit shall be demonstrated through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 18, 25 or 25A, as appropriate.

Compliance with the 8 pounds per hour organic compound emission limitation specified in this permit shall be demonstrated through gravimetric testing. The gravimetric testing shall be consistent with the procedures and methods specified in the Intent to Test dated February 28, 1994.

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

3. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s).

4. The monomeric styrene content of the resins utilized in this process shall be determined in accordance with the resin supplier's MSDS sheets. If required, the permittee shall conduct or have the resin supplier conduct an analysis of any resin employed in this emissions unit in accordance with 40 CFR Part 60, Appendix A, Method 24. When Method 24 is used, the weight percent monomer shall be taken to be the weight percent volatiles of the uncatalyzed resin. In the event of a discrepancy between the MSDS data and the analyses performed in accordance with 40 CFR Part 60, Appendix A, Method 24, the Method 24 data will take precedence.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: Lamination Table #4 (R006)

Activity Description: Resin Application and Vacuum Curing

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
panel lamination operation - resin application and vacuum curing - Lamination Table #4	OAC rule 3745-21-07(G)(2)	Organic compound emissions shall not exceed 8 pounds per hour and 40 pounds per day when the oven is not in use.
	OAC rule 3745-21-07(G)(1)	Organic compound emissions shall not exceed 3 pounds per hour and 15 pounds per day when the oven is in use.

2. Additional Terms and Conditions

2.a The monomeric styrene content of the resin utilized in this process shall not exceed 33%, by weight, as employed.

II. Operational Restrictions

1. Only acetone shall be used as a cleanup material in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day for the panel lamination assembling operation:

a. The name and identification number of each resin employed.

b. Documentation on whether or not the resin is a photochemically reactive material.*

c. The number of pounds of resin employed each hour.

d. The total number of pounds of resin employed during the day.

e. The total number of pounds of acetone employed during the day.**

f. The organic compound emission rate for acetone, in pounds per day. (For this emissions unit, the uncontrolled emission rate represents the amount of material employed minus the amount that was recycled.)**

g. The organic compound emission rate for the resin, in pounds per hour, for each hour of operation, i.e., lbs of resin/hr x the emission factor from the most recent emission tests showing compliance. The emission factor from the last emission tests conducted on March 8, 1994 was .00268 lb OC/lb resin.

h. The organic compound emission rate for the resin, in pounds per day, i.e., lbs of resin/day x the emission factor developed from the most recent emission tests showing compliance. The emission factor from the last emission tests conducted on March 8, 1994 was .00268 lb OC/lb resin.

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

** This term will not be used as a basis for any enforcement action. It has been included for informational purposes to identify the types of records that must be kept by the permittee to document and calculate the annual emissions for the emissions unit.

2. The permittee shall collect and record the following information each day when the oven is in use:

a. The total number of hours this emissions unit was in operation and subject to OAC rule 3745-21-07(G)(1). ("Operation" shall mean the sum of all time periods beginning with the placement of the oven over the table and ending when the oven is removed from the table.)

b. The organic compound emission rate during oven operation, in pounds per day, i.e., (a) x the hourly emission rate developed from the most recent emission tests showing compliance. The hourly emission rate from the last emission tests conducted on May 16, 1991 was .64 lb/hr.

c. The monomeric styrene content of each resin employed, in percent by weight.

IV. Reporting Requirements

1. In accordance with Section A.1.c.ii of the General Terms and Conditions, the permittee shall submit quarterly deviation (excursion) reports which include the following information:

a. an identification of each hour during which the hourly organic compound emission rate from the panel lamination process exceeded 8 pounds per hour, and the actual hourly organic compound emission rate for each such hour;

b. an identification of each day during which the organic compound emission rate from the panel lamination process exceeded 40 pounds per day, and the actual organic compound emission rate for each such day;

c. an identification of each day during which the organic compound emission rate for the oven exceeded 15 pounds per day, and the actual organic compound emission rate for the oven for each such day; and

d. any increase above 33%, by weight, of the styrene content of the resin employed in this emissions unit.

V. Testing Requirements

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

Emission Limitations: Organic compound emissions shall not exceed 8 pounds per hour and 40 pounds per day when the oven is not in use.
Applicable Compliance Method: Compliance shall be based on the record keeping requirements as specified in Section A.III.1 and periodic gravimetric testing.

Emission Limitations: Organic compound emissions shall not exceed 3 pounds per hour and 15 pounds per day when the oven is in use.
Applicable Compliance Method: Compliance shall be based on the record keeping requirements as specified in Section A.III.2 and periodic emission testing.

2. Provided the manufacturing process remains identical for all 6 lamination tables (emissions units R003 through R008), the permittee shall conduct or have conducted, emission testing on one of these emissions units in accordance with the following requirements:

a. The emission testing shall be conducted within 3 months after issuance of the permit and within 6 months prior to the permit expiration.

b. The emission testing shall be conducted to demonstrate compliance with the organic compound emission limitations specified in this permit.

c. The test methods which must be employed to demonstrate compliance with the organic compound emission limitations are specified below.

Compliance with the 3 pounds per hour organic compound emission limitation specified in this permit shall be demonstrated through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 18, 25 or 25A, as appropriate.

Compliance with the 8 pounds per hour organic compound emission limitation specified in this permit shall be demonstrated through gravimetric testing. The gravimetric testing shall be consistent with the procedures and methods specified in the Intent to Test dated February 28, 1994.

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

3. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s).

4. The monomeric styrene content of the resins utilized in this process shall be determined in accordance with the resin supplier's MSDS sheets. If required, the permittee shall conduct or have the resin supplier conduct an analysis of any resin employed in this emissions unit in accordance with 40 CFR Part 60, Appendix A, Method 24. When Method 24 is used, the weight percent monomer shall be taken to be the weight percent volatiles of the uncatalyzed resin. In the event of a discrepancy between the MSDS data and the analyses performed in accordance with 40 CFR Part 60, Appendix A, Method 24, the Method 24 data will take precedence.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: Lamination Table #5 (R007)

Activity Description: Resin Application and Vacuum Curing

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
panel lamination operation - resin application and vacuum curing - Lamination Table #5	OAC rule 3745-21-07(G)(2)	Organic compound emissions shall not exceed 8 pounds per hour and 40 pounds per day when the oven is not in use.
	OAC rule 3745-21-07(G)(1)	Organic compound emissions shall not exceed 3 pounds per hour and 15 pounds per day when the oven is in use.

2. Additional Terms and Conditions

2.a The monomeric styrene content of the resin utilized in this process shall not exceed 33%, by weight, as employed.

II. Operational Restrictions

1. Only acetone shall be used as a cleanup material in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day for the panel lamination assembling operation:

a. The name and identification number of each resin employed.

b. Documentation on whether or not the resin is a photochemically reactive material.*

c. The number of pounds of resin employed each hour.

d. The total number of pounds of resin employed during the day.

e. The total number of pounds of acetone employed during the day.**

f. The organic compound emission rate for acetone, in pounds per day. (For this emissions unit, the uncontrolled emission rate represents the amount of material employed minus the amount that was recycled.)**

g. The organic compound emission rate for the resin, in pounds per hour, for each hour of operation, i.e., lbs of resin/hr x the emission factor from the most recent emission tests showing compliance. The emission factor from the last emission tests conducted on March 8, 1994 was .00268 lb OC/lb resin.

h. The organic compound emission rate for the resin, in pounds per day, i.e., lbs of resin/day x the emission factor developed from the most recent emission tests showing compliance. The emission factor from the last emission tests conducted on March 8, 1994 was .00268 lb OC/lb resin.

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

** This term will not be used as a basis for any enforcement action. It has been included for informational purposes to identify the types of records that must be kept by the permittee to document and calculate the annual emissions for the emissions unit.

2. The permittee shall collect and record the following information each day when the oven is in use:

a. The total number of hours this emissions unit was in operation and subject to OAC rule 3745-21-07(G)(1). ("Operation" shall mean the sum of all time periods beginning with the placement of the oven over the table and ending when the oven is removed from the table.)

b. The organic compound emission rate during oven operation, in pounds per day, i.e., (a) x the hourly emission rate developed from the most recent emission tests showing compliance. The hourly emission rate from the last emission tests conducted on May 16, 1991 was .64 lb/hr.

c. The monomeric styrene content of each resin employed, in percent by weight.

IV. Reporting Requirements

1. In accordance with Section A.1.c.ii of the General Terms and Conditions, the permittee shall submit quarterly deviation (excursion) reports which include the following information:

a. an identification of each hour during which the hourly organic compound emission rate from the panel lamination process exceeded 8 pounds per hour, and the actual hourly organic compound emission rate for each such hour;

b. an identification of each day during which the organic compound emission rate from the panel lamination process exceeded 40 pounds per day, and the actual organic compound emission rate for each such day;

c. an identification of each day during which the organic compound emission rate for the oven exceeded 15 pounds per day, and the actual organic compound emission rate for the oven for each such day; and

d. any increase above 33%, by weight, of the styrene content of the resin employed in this emissions unit.

V. Testing Requirements

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

Emission Limitations: Organic compound emissions shall not exceed 8 pounds per hour and 40 pounds per day when the oven is not in use.
Applicable Compliance Method: Compliance shall be based on the record keeping requirements as specified in Section A.III.1 and periodic gravimetric testing.

Emission Limitations: Organic compound emissions shall not exceed 3 pounds per hour and 15 pounds per day when the oven is in use.
Applicable Compliance Method: Compliance shall be based on the record keeping requirements as specified in Section A.III.2 and periodic emission testing.

2. Provided the manufacturing process remains identical for all 6 lamination tables (emissions units R003 through R008), the permittee shall conduct or have conducted, emission testing on one of these emissions units in accordance with the following requirements:

a. The emission testing shall be conducted within 3 months after issuance of the permit and within 6 months prior to the permit expiration.

b. The emission testing shall be conducted to demonstrate compliance with the organic compound emission limitations specified in this permit.

c. The test methods which must be employed to demonstrate compliance with the organic compound emission limitations are specified below.

Compliance with the 3 pounds per hour organic compound emission limitation specified in this permit shall be demonstrated through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 18, 25 or 25A, as appropriate.

Compliance with the 8 pounds per hour organic compound emission limitation specified in this permit shall be demonstrated through gravimetric testing. The gravimetric testing shall be consistent with the procedures and methods specified in the Intent to Test dated February 28, 1994.

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

3. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s).

4. The monomeric styrene content of the resins utilized in this process shall be determined in accordance with the resin supplier's MSDS sheets. If required, the permittee shall conduct or have the resin supplier conduct an analysis of any resin employed in this emissions unit in accordance with 40 CFR Part 60, Appendix A, Method 24. When Method 24 is used, the weight percent monomer shall be taken to be the weight percent volatiles of the uncatalyzed resin. In the event of a discrepancy between the MSDS data and the analyses performed in accordance with 40 CFR Part 60, Appendix A, Method 24, the Method 24 data will take precedence.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: Lamination Table #6 (R008)

Activity Description: Resin Application and Vacuum Curing

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
panel lamination operation - resin application and vacuum curing - Lamination Table #6	OAC rule 3745-21-07(G)(2)	Organic compound emissions shall not exceed 8 pounds per hour and 40 pounds per day when the oven is not in use.
	OAC rule 3745-21-07(G)(1)	Organic compound emissions shall not exceed 3 pounds per hour and 15 pounds per day when the oven is in use.

2. Additional Terms and Conditions

2.a The monomeric styrene content of the resin utilized in this process shall not exceed 33%, by weight, as employed.

II. Operational Restrictions

1. Only acetone shall be used as a cleanup material in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day for the panel lamination assembling operation:

a. The name and identification number of each resin employed.

b. Documentation on whether or not the resin is a photochemically reactive material.*

c. The number of pounds of resin employed each hour.

d. The total number of pounds of resin employed during the day.

e. The total number of pounds of acetone employed during the day.**

f. The organic compound emission rate for acetone, in pounds per day. (For this emissions unit, the uncontrolled emission rate represents the amount of material employed minus the amount that was recycled.)**

g. The organic compound emission rate for the resin, in pounds per hour, for each hour of operation, i.e., lbs of resin/hr x the emission factor from the most recent emission tests showing compliance. The emission factor from the last emission tests conducted on March 8, 1994 was .00268 lb OC/lb resin.

h. The organic compound emission rate for the resin, in pounds per day, i.e., lbs of resin/day x the emission factor developed from the most recent emission tests showing compliance. The emission factor from the last emission tests conducted on March 8, 1994 was .00268 lb OC/lb resin.

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

** This term will not be used as a basis for any enforcement action. It has been included for informational purposes to identify the types of records that must be kept by the permittee to document and calculate the annual emissions for the emissions unit.

2. The permittee shall collect and record the following information each day when the oven is in use:

a. The total number of hours this emissions unit was in operation and subject to OAC rule 3745-21-07(G)(1). ("Operation" shall mean the sum of all time periods beginning with the placement of the oven over the table and ending when the oven is removed from the table.)

b. The organic compound emission rate during oven operation, in pounds per day, i.e., (a) x the hourly emission rate developed from the most recent emission tests showing compliance. The hourly emission rate from the last emission tests conducted on May 16, 1991 was .64 lb/hr.

c. The monomeric styrene content of each resin employed, in percent by weight.

IV. Reporting Requirements

1. In accordance with Section A.1.c.ii of the General Terms and Conditions, the permittee shall submit quarterly deviation (excursion) reports which include the following information:

a. an identification of each hour during which the hourly organic compound emission rate from the panel lamination process exceeded 8 pounds per hour, and the actual hourly organic compound emission rate for each such hour;

b. an identification of each day during which the organic compound emission rate from the panel lamination process exceeded 40 pounds per day, and the actual organic compound emission rate for each such day;

c. an identification of each day during which the organic compound emission rate for the oven exceeded 15 pounds per day, and the actual organic compound emission rate for the oven for each such day; and

d. any increase above 33%, by weight, of the styrene content of the resin employed in this emissions unit.

V. Testing Requirements

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

Emission Limitations: Organic compound emissions shall not exceed 8 pounds per hour and 40 pounds per day when the oven is not in use.
Applicable Compliance Method: Compliance shall be based on the record keeping requirements as specified in Section A.III.1 and periodic gravimetric testing.

Emission Limitations: Organic compound emissions shall not exceed 3 pounds per hour and 15 pounds per day when the oven is in use.
Applicable Compliance Method: Compliance shall be based on the record keeping requirements as specified in Section A.III.2 and periodic emission testing.

2. Provided the manufacturing process remains identical for all 6 lamination tables (emissions units R003 through R008), the permittee shall conduct or have conducted, emission testing on one of these emissions units in accordance with the following requirements:

a. The emission testing shall be conducted within 3 months after issuance of the permit and within 6 months prior to the permit expiration.

b. The emission testing shall be conducted to demonstrate compliance with the organic compound emission limitations specified in this permit.

c. The test methods which must be employed to demonstrate compliance with the organic compound emission limitations are specified below.

Compliance with the 3 pounds per hour organic compound emission limitation specified in this permit shall be demonstrated through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 18, 25 or 25A, as appropriate.

Compliance with the 8 pounds per hour organic compound emission limitation specified in this permit shall be demonstrated through gravimetric testing. The gravimetric testing shall be consistent with the procedures and methods specified in the Intent to Test dated February 28, 1994.

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

3. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s).

4. The monomeric styrene content of the resins utilized in this process shall be determined in accordance with the resin supplier's MSDS sheets. If required, the permittee shall conduct or have the resin supplier conduct an analysis of any resin employed in this emissions unit in accordance with 40 CFR Part 60, Appendix A, Method 24. When Method 24 is used, the weight percent monomer shall be taken to be the weight percent volatiles of the uncatalyzed resin. In the event of a discrepancy between the MSDS data and the analyses performed in accordance with 40 CFR Part 60, Appendix A, Method 24, the Method 24 data will take precedence.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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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