



State of Ohio Environmental Protection Agency

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

**CERTIFIED MAIL**

Street Address:

122 S. Front Street

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

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049

**Application No: 07-480**

**DATE: September 29, 1999**

Etura Premier LLC  
Don B Olson  
26340 Old 41 Road  
Bonita Springs, FL 33923

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

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

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

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

Very truly yours,

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

cc: USEPA  
PORTSMOUTH CITY HEALTH DEPARTMENT



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

**Permit To Install  
Terms and  
Conditions**

**Issue Date: September 29, 1999  
Effective Date: September 29, 1999**

**FINAL PERMIT TO INSTALL 07-480**

Application Number: 07-480  
APS Premise Number: 0701000066  
Permit Fee: **\$1000**  
Name of Facility: Etura Premier LLC  
Person to Contact: Don B Olson  
Address: 26340 Old 41 Road  
Bonita Springs, FL 33923

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**2564 Moores Road  
Seaman, Ohio**

Description of proposed emissions unit(s):  
**POLYMER CASTING LINE, APPLICATION OF MOLD CARE PRODUCTS, AND SURFACE FINISHING.**

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency



---

Director

## Part I - GENERAL TERMS AND CONDITIONS

### A. Permit to Install General Terms and Conditions

#### 1. Compliance Requirements

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

#### 2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

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

#### 3. Records Retention Requirements

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

#### 4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized

representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

**5. Scheduled Maintenance/Malfunction Reporting**

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

**6. Permit Transfers**

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

**7. Air Pollution Nuisance**

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

**8. Termination of Permit to Install**

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

**9. Construction of New Sources(s)**

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

Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities prove to be inadequate or cannot meet applicable standards.

**10. Public Disclosure**

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

**11. Applicability**

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

**12. Best Available Technology**

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

**13. Source Operation and Operating Permit Requirements After Completion of Construction**

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

**14. Construction Compliance Certification**

**Etura Premier LLC**  
 PTI Application: **07-480**  
**September 29, 1999**

Facility ID: **0701000066**

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

**15. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

**B. Permit to Install Summary of Allowable Emissions**

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

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

| <u>Pollutant</u> | <u>Tons Per Year</u> |
|------------------|----------------------|
| OC               | 4.4                  |
| Total HAP        | 4.0                  |
| NO <sub>x</sub>  | 2.4                  |
| CO               | 0.3                  |
| particulates     | 6.7                  |

---

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

**A. Applicable Emissions Limitations and/or Control Requirements**

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

| <u>Operations, Property,<br/>and/or Equipment</u>                         | <u>Applicable Rules/Requirements</u> | <u>Applicable Emissions<br/>Limitations/Control Measures</u>  |
|---|--------------------------------------|---|
| inline mixer, casting and curing of polyester resin with thermal oxidizer | OAC rule 3745-31-05                  | See A.2.a, A.2.b, and A.2.c below.  |
|   | OAC rule 3745-21-07(G)(2)            | Compliance with the Air Toxic Policy<br>8 lb/hr and 40 lb/day of organic compounds (See A.2.d below.) |

**2. Additional Terms and Conditions**

- 2.a Emissions units P001 and P002 are vented to the thermal oxidizer. Total emissions from the thermal oxidizer, of all sources vented to the thermal oxidizer, shall not exceed the current allowable emission limitations:
  - 1.02 lb/hr of OC, 24.4 lb/day of OC, 4.4 TPY of OC;
  - 0.54 lb/hr of NOx, 2.4 TPY of NOx;
  - 0.07 lb/hr of CO, 0.3 TPY of CO; and
  - 0.02 lb/hr of particulates, 0.1 TPY of particulates.
- 2.b Total HAP emissions from the thermal oxidizer shall not exceed 4.0 TPY in compliance with the emission limitation established by best available technology pursuant to OAC rule 3745-31-05.
- 2.c The permittee shall employ only resins with a styrene content of 40% or less as a daily weighted average.
- 2.d The OC emissions limitations based on OAC rule 3745-21-07(G)(2) are less stringent than the OC emission limitations established by best available technology pursuant to OAC rule 3745-31-05.

- 2.e The permittee shall vent the emissions from the inline mixer, casting, and curing of polyester resin to a thermal oxidizer with a 95% control efficiency.

**B. Operational Restrictions**

1. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1500 degrees Fahrenheit.

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator 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.

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

- a. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was less than 1500 degrees Fahrenheit.
  - b. A log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.
2. The permittee shall maintain monthly records of the following:
    - a. the name and identification number of each resin employed;
    - b. the weight, in pounds, of each resin employed;
    - c. the OC content of each resin employed, in percent OC;
    - d. the single HAP and total HAP content of each resin employed, in percent HAP;
    - e. the total OC emission rate for all resins employed, in pounds per day (average);

- f. the total single HAP and total HAP emission rate for all resins employed, in pounds per day (average);
  - g. the hours of operation; and,
  - h. the average hourly OC emission rate for all resins employed, in pounds per hour (average); and,
  - i. the average hourly single HAP emission rate for all resins employed, in pounds per hour (average).
3. The permittee shall collect and record the following information for each change where the air toxic modeling was required pursuant to the Air Toxic Policy:
    - a. background data that describes the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.); and,
    - b. a copy of the resulting computer model runs that show the results of the application of the Air Toxic Policy for the change.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.
2. These reports shall be submitted in accordance with the requirements specified in Part I - General Terms and Conditions section A.2.

**E. Testing Requirements**

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
  - a. The emission testing shall be conducted within 60 days after achieving the maximum production rate but no later than 180 days after initial startup of the emission unit.
  - b. The emission testing shall be conducted to demonstrate compliance with the

allowable mass emission rate for organic compounds.

- c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): U. S. EPA Method 25A in Appendix A of 40 CFR Part 60. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
- 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.

An organic compound emissions test shall also be conducted at the inlet of the control device to determine the uncontrolled mass rate of emissions from the emission unit, for purposes of determining the control efficiency of the thermal oxidizer. For this test, Method 25A of 40 CFR Part 60, Appendix A, shall be employed.

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 emissions 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). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

2. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitation:

1.02 lbs/hr of OC from the thermal oxidizer

Applicable Compliance Method:

Compliance shall be demonstrated by calculating the sum of i and ii below:

- i. Multiply the maximum inline mixer production rate, in pounds of resin used per day, times the maximum organic compound content times the emission factor of 0.03 (AP-42 Table 4.4-2, 3% starting monomer emitted) times the control efficiency factor of 0.05 (95% control efficiency) divided by the hours of operation per day; and
- ii. Multiply the maximum mold care product application rate, in pounds per hour, times 0.99 (99% OC content) times the control efficiency factor of 0.05 (95% control efficiency).

b. Emission Limitation:

24.4 lbs/day of OC from the thermal oxidizer

Applicable Compliance Method:

Compliance shall be demonstrated by calculating the sum of i and ii below:

- i. Compliance shall be determined by multiplying the maximum production rate, in pounds of resin used per day, times the maximum organic compound content times the emission factor of 0.03 (AP-42 Table 4.4-2, 3% starting monomer emitted) times the control efficiency factor of 0.05 (95% control efficiency).
- ii. Multiply the maximum mold care product application rate, in pounds per hour, times 24 hours per day times 0.99 (99% OC content) times the control efficiency factor of 0.05 (95% control efficiency).

c. Emission Limitation:

4.4 TPY of OC from the thermal oxidizer

Applicable Compliance Method:

Compliance shall be demonstrated by calculating the sum of i and ii below:

- i. Compliance shall be determined by multiplying the maximum production rate, in pounds of resin used per day, times the maximum organic compound content times the emission factor of 0.03 (AP-42 Table 4.4-2, 3% starting monomer emitted) times the control efficiency factor of 0.05 (95% control efficiency) times 365 days per year divided by 2,000 pounds per ton.
- ii. Multiply the maximum mold care product application rate, in pounds per hour, times 0.99 (99% OC content) times the control efficiency factor of 0.05 (95% control efficiency) times 8,760 hours per year divided by 2,000 pounds per ton.

d. Emission Limitation:

4.4 TPY of total HAPs from the thermal oxidizer

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum production rate, in pounds of resin used per day, times the maximum total HAP content times the emission factor of 0.03 (AP-42 Table 4.4-2, 3% starting monomer emitted) times 365 days per year divided by 2,000 pounds per ton.

e. Emission Limitation:

0.54 lb/hr of NO<sub>x</sub> from the thermal oxidizer

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum fuel usage rate of 0.0387 1,000 gallons per hour times the emission factor of 14 pounds per 1,000 gallons (AP-42, Table 1.5-2).

f. Emission Limitation:

2.4 TPY of NO<sub>x</sub> from the thermal oxidizer

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum fuel usage rate of 0.0387 1,000 gallons per hour times the emission factor of 14 pounds per 1,000 gallons (AP-42, Table 1.5-2) times 8,760 hours per year divided by 2,000 pounds per ton.

g. Emission Limitation:

0.07 lb/hr of CO from the thermal oxidizer

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum fuel usage rate of 0.0387 1,000 gallons per hour times the emission factor of 1.9 pounds per 1,000 gallons (AP-42, Table 1.5-2).

h. Emission Limitation:

0.3 TPY of CO from the thermal oxidizer

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum fuel usage rate of 0.0387 1,000 gallons per hour times the emission factor of 1.9 pounds per 1,000 gallons (AP-42, Table 1.5-2) times 8,760 hours per year divided by 2,000 pounds per ton.

## i. Emission Limitation:

0.02 lb/hr of particulates from the thermal oxidizer

## Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum fuel usage rate of 0.0387 1,000 gallons per hour times the emission factor of 0.4 pounds per 1,000 gallons (AP-42, Table 1.5-2).

## j. Emission Limitation:

0.1 TPY of particulates from the thermal oxidizer

## Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum fuel usage rate of 0.0387 1,000 gallons per hour times the emission factor of 0.4 pounds per 1,000 gallons (AP-42, Table 1.5-2) times 8,760 hours per year divided by 2,000 pounds per ton.

**F. Miscellaneous Requirements**

1. This permit allows the use of materials (typically coatings and cleanup materials) specified by the permittee in the permit to install application for this emissions unit. To fulfill the best available technology requirements of OAC rule 3745-31-05 and to ensure compliance with OAC rule 3745-15-07 (Air Pollution Nuisances Prohibited), the emission limitation(s) specified in this permit was (were) established using the Ohio EPA's "Air Toxics Policy" and is (are) based on both the materials used and the design parameters of the emissions unit's exhaust system, as specified in the application. The Ohio EPA's "Air Toxics Policy" was applied for each pollutant using the SCREEN 3.0 model and comparing the predicted 1-hour maximum ground-level concentration to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for each pollutant:

Pollutant: Styrene

TLV (Ug/m<sup>3</sup>): 85,000

Maximum Hourly Emission Rate (lbs/hr): 5.4

**Etura Premier LLC**  
PTI Application: **07 100**  
**Septer**

Facility ID: **0701000066**

Emissions Unit ID: **P001**

Predicted 1-Hour Maximum Ground-Level Concentration (Ug/m3): 427.3

MAGLC (ug/m3): 2,020

Pollutant: Methyl methacrylate

TLV (Ug/m3): 410,000

Maximum Hourly Emission Rate (lbs/hr): 1.6

Predicted 1-Hour Maximum Ground-Level Concentration (Ug/m3): 68.59

MAGLC (ug/m3): 9,800

OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by the OAC rule 3745-31-01. The permittee is hereby advised that the following changes to the process may be determined to be a "modification":

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)" than the lowest TLV value specified in the above table;
- b. changes to the emissions unit or its exhaust parameters (e.g., increased emission rate {not including an increase in an "allowable" emission limitation specified in the terms and conditions of this permit}, reduced exhaust gas flow rate, and decreased stack height);
- c. changes in the composition of the materials used, or use of new materials, that would result in the emission of an air contaminant not previously permitted; and,
- d. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV.

The Ohio EPA will not consider any of the above-mentioned as a "modification" requiring a permit to install, if the following conditions are met:

- a. the change is not otherwise considered a "modification" under OAC Chapter 3745-31;

- b. the permittee can continue to comply with the allowable emission limitations specified in its permit to install; and,
- c. prior to the change, the applicant conducts an evaluation pursuant to the Air Toxic Policy, determined that the changed emissions unit still satisfies the Air Toxics Policy, and the permittee maintains documentation that identifies the change and the results of the application of the Air Toxic Policy for the change.

For any change to the emissions unit or its method of operation that either would require an increase in the emission limitation(s) established by this permit or would otherwise be considered a "modification" as defined in OAC rule 3745-31-01, the permittee shall obtain a final permit to install prior to the change.

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]**

**A. Applicable Emissions Limitations and/or Control Requirements**

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

| <u>Operations, Property, and/or Equipment</u>                 | <u>Applicable Rules/Requirements</u> | <u>Applicable Emissions Limitations/Control Measures</u>      |
|---|--------------------------------------|---|
| spray application of mold care products with thermal oxidizer | OAC rule 3745-31-05                  | See A.2.a below.  |
|   | OAC rule 3745-21-07(G)(2)            | 8 lb/hr and 40 lb/day of organic compounds (See A.2.b below.) |

**2. Additional Terms and Conditions**

- 2.a Emissions units P001 and P002 are vented to the thermal oxidizer. Total emissions from the thermal oxidizer, of all sources vented to the thermal oxidizer, shall not exceed the current allowable emission limitations:
  - 1.02 lb/hr of OC, 24.4 lb/day of OC, 4.4 TPY of OC;
  - 0.54 lb/hr of NO<sub>x</sub>, 2.4 TPY of NO<sub>x</sub>;
  - 0.07 lb/hr of CO, 0.3 TPY of CO; and
  - 0.02 lb/hr of particulates, 0.1 TPY of particulates.
- 2.b The OC emissions limitations based on OAC rule 3745-21-07(G)(2) are less stringent than the OC emission limitations established by best available technology pursuant to OAC rule 3745-31-05.
- 2.c The permittee shall vent the emissions from the application of mold care products to a thermal oxidizer with a 95% control efficiency.

**B. Operational Restrictions**

**Etura Premier LLC**  
PTI Application: **07 490**  
**Septer**

Facility ID: **0701000066**

Emissions Unit ID: **P002**

1. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1500 degrees Fahrenheit.

### **C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator 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.

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

- a. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was less than 1500 degrees Fahrenheit.
- b. A log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

### **D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.
2. These reports shall be submitted in accordance with the requirements specified in Part I - General Terms and Conditions section A.2.

### **E. Testing Requirements**

1. See Testing Requirements in term and condition E.1 of emission unit P001.
2. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
  - a. Emission Limitation:  
  
1.02 lbs/hr of OC from the thermal oxidizer

20

**Etura**

PTI A<sub>1</sub>

**September 29, 1999**

Emissions Unit ID: **P002**

Applicable Compliance Method:

Compliance shall be demonstrated by calculating the sum of i and ii below:

- i. Multiply the maximum inline mixer production rate, in pounds of resin used per day, times the maximum organic compound content times the emission factor of 0.03 (AP-42 Table 4.4-2, 3% starting monomer emitted) times the control efficiency factor of 0.05 (95% control efficiency) divided by the hours of operation per day; and,
- ii. Multiply the maximum mold care product application rate, in pounds per hour, times 0.99 (99% OC content) times the control efficiency factor of 0.05 (95% control efficiency).

b. Emission Limitation:

24.4 lbs/day of OC from the thermal oxidizer

Applicable Compliance Method:

Compliance shall be demonstrated by calculating the sum of i and ii below:

- i. Compliance shall be determined by multiplying the maximum production rate, in pounds of resin used per day, times the maximum organic compound content times the emission factor of 0.03 (AP-42 Table 4.4-2, 3% starting monomer emitted) times the control efficiency factor of 0.05 (95% control efficiency).
- ii. Multiply the maximum mold care product application rate, in pounds per hour, times 24 hours per day times 0.99 (99% OC content) times the control efficiency factor of 0.05 (95% control efficiency).

c. Emission Limitation:

4.4 TPY of OC from the thermal oxidizer

Applicable Compliance Method:

Compliance shall be demonstrated by calculating the sum of i and ii below:

- i. Compliance shall be determined by multiplying the maximum production rate, in pounds of resin used per day, times the maximum organic

compound content times the emission factor of 0.03 (AP-42 Table 4.4-2, 3% starting monomer emitted) times the control efficiency factor of 0.05 (95% control efficiency) times 365 days per year divided by 2,000 pounds per ton.

- ii. Multiply the maximum mold care product application rate, in pounds per hour, times 0.99 (99% OC content) times the control efficiency factor of 0.05 (95% control efficiency) times 8,760 hours per year divided by 2,000 pounds per ton.

- d. Emission Limitation:

0.54 lb/hr of NO<sub>x</sub> from the thermal oxidizer

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum fuel usage rate of 0.0387 1,000 gallons per hour times the emission factor of 14 pounds per 1,000 gallons (AP-42, Table 1.5-2).

- e. Emission Limitation:

2.4 TPY of NO<sub>x</sub> from the thermal oxidizer

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum fuel usage rate of 0.0387 1,000 gallons per hour times the emission factor of 14 pounds per 1,000 gallons (AP-42, Table 1.5-2) times 8,760 hours per year divided by 2,000 pounds per ton.

- f. Emission Limitation:

0.07 lb/hr of CO from the thermal oxidizer

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum fuel usage rate of 0.0387 1,000 gallons per hour times the emission factor of 1.9 pounds per 1,000 gallons (AP-42, Table 1.5-2).

**Etura Premier LLC**  
PTI Application: **07 100**  
**Septer**

Facility ID: **0701000066**

Emissions Unit ID: **P002**

g. Emission Limitation:

0.3 TPY of CO from the thermal oxidizer

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum fuel usage rate of 0.0387 1,000 gallons per hour times the emission factor of 1.9 pounds per 1,000 gallons (AP-42, Table 1.5-2) times 8,760 hours per year divided by 2,000 pounds per ton.

h. Emission Limitation:

0.02 lb/hr of particulates from the thermal oxidizer

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum fuel usage rate of 0.0387 1,000 gallons per hour times the emission factor of 0.4 pounds per 1,000 gallons (AP-42, Table 1.5-2).

i. Emission Limitation:

0.1 TPY of particulates from the thermal oxidizer

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum fuel usage rate of 0.0387 1,000 gallons per hour times the emission factor of 0.4 pounds per 1,000 gallons (AP-42, Table 1.5-2) times 8,760 hours per year divided by 2,000 pounds per ton.

**F. Miscellaneous Requirements**

None

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]**

**A. Applicable Emissions Limitations and/or Control Requirements**

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

| <u>Operations, Property, and/or Equipment</u> | <u>Applicable Rules/Requirements</u> | <u>Applicable Emissions Limitations/Control Measures</u>   |
|---|--------------------------------------|--|
| flat surface finishing: sanding and grinding  | OAC rule 3745-31-05                  | 1.5 lbs/hr of particulates<br>6.6 TPY of particulates  |
|   | OAC rule 3745-17-11                  | 6.1 lbs/hr of particulates (See A.2.a below)   |
|   | OAC rule 3745-17-07(A)               | Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule. |

2. **Additional Terms and Conditions**

- 2.a The emission limitation established by OAC rule 3745-17-11 is less stringent than the emission limitation established pursuant to best available technology by OAC rule 3745-31-05.

**B. Operational Restrictions**

1. The pressure drop across the baghouse shall be maintained within the manufacturer's specified range, as measured in inches of water, while the emissions unit is in operation.

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on weekly basis.
2. The permittee shall maintain all records required by the terms and conditions of this permit for a period of not less than five years. The records shall be retained on site and shall be made available for review during normal business hours.

#### **D. Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. These reports shall be submitted in accordance with the requirements specified in Part I - General Terms and Conditions section A.2.

#### **E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
  - a. Emission Limitation:  
  
1.5 lbs/hr of particulates  
  
Applicable Compliance Method:  
  
Compliance shall be demonstrated by multiplying the maximum production rate in tons/hour times the emission factor, in pounds/ton, calculated from the most recent performance test which demonstrated compliance.
  - b. Emission Limitation:  
  
6.6 TPY of particulates

**Etura Premier LLC**  
PTI Application: **07-100**  
**Septer**

Facility ID: **0701000066**

Emissions Unit ID: **P003**

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the pound per hour emission rate calculated in E.1.a above times 8760 hours per year divided by 2000 pounds per ton.

c. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with the requirements specified in OAC rule 3745-17-03(B)(1).

d. Emission Limitation:

6.1 lbs/hr of particulates

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum production rate in tons/hour times the emission factor, in pounds/ton, calculated from the most recent performance test which demonstrated compliance.

2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
- a. The emission testing shall be conducted within 60 days after achieving the maximum production rate but no later than 180 days after initial startup of the emissions unit.
  - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulates.
  - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): U. S. EPA Method 5, 40 CFR Part 60, Appendix A
  - 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.

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 emissions 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). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

#### **F. Miscellaneous Requirements**

None