



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL  
DARKE 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: 08-3921**

**DATE: 9/1/99**

Jafe Decorating Co., Inc.  
Dave Irwin  
1250 Martin PO Box 359  
Greenville, OH 45331

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: US EPA  
REGIONAL AIR POLLUTION CONTROL AGENCY



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

**Permit To Install**

**Issue Date: September 1, 1999**

**FINAL PERMIT TO INSTALL 08-3921**

Application Number: 08-3921  
APS Premise Number: 0819070215  
Permit Fee: **\$2600**  
Name of Facility: Jafe Decorating Co., Inc.  
Person to Contact: Dave Irwin  
Address: 1250 Martin PO Box 359  
Greenville, OH 45331

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**1250 Martin**  
**Greenville, Ohio**

Description of proposed emissions unit(s):  
**STAINED GLASS MANUFACTURING FACILITY.**

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



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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

**Jafe Decorating Co., Inc.**  
PTI Application: **08-3921**  
**September 1, 1999**

Facility ID: **0819070215**

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)**

**Jafe Decorating Co., Inc.**  
PTI Application: **08-3921**  
**September 1, 1999**

Facility ID: **0819070215**

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**

**Jafe Decorating Co., Inc.**  
PTI Application: **08-3921**  
**September 1, 1999**

Facility ID: **0819070215**

### **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.

**Jafe Decorating Co., Inc.**  
 PTI Application: **08-3921**  
**September 1, 1999**

Facility ID: **0819070215**

#### **14. Construction Compliance Certification**

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

#### **15. Fees**

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

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

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

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

<u>Pollutant</u>	<u>Tons Per Year</u>
Particulate	21.03
VOC	11.44
OC	34.60
CO	36.79
S <sub>0</sub> <sub>2</sub>	12.60

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

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Bell furnace #1 for ion exchange process (**Modification)	OAC rule 3745-31-05	3.0 lbs SO <sub>2</sub> per batch cycle; 4.2 TPY SO <sub>2</sub>
		5.01 lbs Particulate per batch cycle; 7.01 TPY Particulate (as copper salt)
		5% opacity visible emission limitation, as a 6 minute average
	OAC rule 3745-18-06	The sulfur dioxide limit specified by this rule is less stringent than that specified by OAC rule 3745-31-05.
	OAC rule 3745-17-11	The particulate limit specified by this rule is less stringent than that specified by OAC rule 3745-31-05.

**2. Additional Terms and Conditions**

- 2.a The 5.01 lbs PM per batch cycle and 3.0 lbs SO<sub>2</sub> per batch cycle limits were established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

**B. Operational Restrictions**

**Jafe D**PTI A<sub>1</sub>**September 1, 1999**Emissions Unit ID: **P001**

1. The maximum annual sulfur dioxide usage for this emissions unit shall not exceed 4.2 tons.
2. The maximum annual cuprous chloride usage for this emissions unit shall not exceed 7.01 tons.
3. The maximum annual number of batches for this emissions unit shall not exceed 2800.

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

1. The permittee shall maintain records of all sulfur dioxide cylinder usage, including the start of each cylinder and the end of each cylinder.
2. The permittee shall maintain monthly records of the cuprous chloride usage in this emissions unit.
3. The permittee shall maintain monthly records of the number of batches run in this emissions unit.

**D. Reporting Requirements**

1. The permittee shall submit an exceedance report in accordance with General Term and Condition A.2. within 30 days after the complete usage of each cylinder which identifies an exceedance of the 3.0 lbs SO<sub>2</sub> per batch limitation as well as corrective action taken to achieve compliance
2. The permittee shall submit annual reports in accordance with General Term and Condition A.2. which identify any exceedances of the annual sulfur dioxide usage limitation, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.
3. The permittee shall submit annual reports in accordance with General Term and Condition A.2. which identify any exceedances of the annual cuprous chloride usage limitation, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.
4. The permittee shall submit annual reports in accordance with General Term and Condition A.2. which identify any exceedances of the batch limitation, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.

**E. Testing Requirements**

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

10

**Jafe D**

PTI A<sub>1</sub>

**September 1, 1999**

Emissions Unit ID: **P001**

- a. Emission Limitation-  
3.0 lbs SO<sub>2</sub> per batch cycle

Applicable Compliance Method-

Compliance shall be determined in the following manner:

- i. The amount of sulfur dioxide per cylinder shall be determined by subtracting the empty cylinder weight from the full cylinder weight.
- ii. The sulfur dioxide weight from i. shall be divided by the number of batches as recorded in Section C.3.

b. Emission Limitation-

5.01 lbs Particulate per batch cycle

Applicable Compliance Method-

Compliance shall be determined by dividing the monthly cuprous chloride usage by the number of batches that month.

c. Emission Limitations-

4.2 TPY SO<sub>2</sub>

Applicable Compliance Method-

Compliance shall be determined in the following manner:

- i. The calculated lbs SO<sub>2</sub> per batch numbers, as calculated in Section E.1.a, shall be averaged for the calendar year.
- ii. The average from i. shall be multiplied by the number of batches for all completed sulfur dioxide tanks for the calendar year.
- iii. The product from ii shall be divided by 2000 lbs/ton.

d. Emission Limitations-

7.01 TPY Particulate

Applicable Compliance Method-

**Jafe Decorating Co., Inc.**  
PTI Application: **08 2021**  
**Septer**

Facility ID: **0819070215**

Emissions Unit ID: **P001**

Compliance shall be determined by summing the monthly cuprous chloride usage rates for the calendar year, as recorded in Section C.2, and dividing this sum by 2000 lbs per ton.

**Jafe D**  
**PTI A<sub>1</sub>**  
**September 1, 1999**

Emissions Unit ID: **P001**

e. Emission Limitations-

5% opacity visible emission limitation, as a six minute average.

Applicable Compliance Method-

If required, compliance shall be based on OAC rule 3745-17-03(B)(1) using the methods and procedures specified in USEPA Reference Method 9.

**F. Miscellaneous Requirements**

1. **\*\*This permit modifies PTI #08-3001 issued December 15, 1993 and accounts for a 2.95 TPY increase in sulfur dioxide emissions and the addition of a 7.01 TPY particulate allowable.**
2. The permittee is not subject to Title V permitting requirements as the facility wide potential to emit (PTE) for hazardous air pollutants (HAPs) are less than the major source thresholds of 10 TPY for a single HAP and less than 25 TPY for combined HAPs. This PTI allows the following:

4.15 TPY xylene

0.37 TPY MEK

0.003 TPY ethyl acrylate

1.13 TPY toluene

0.005 TPY methanol

0.04 TPY ethyl benzene

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5.698 TPY combined HAPs

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 OAC rule 3745-31-01. OAC Chapter 3745-77 requires permittees of major sources as defined by OAC rule 3745-77-01 to apply for and obtain a Title V permit when emissions exceed major source thresholds. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would result in an increase in emissions from HAPs above the major source thresholds would require the permittee to apply for and obtain a new permit to install and subsequent Title V permit.

**Jafe D**PTI A<sub>1</sub>

September 1, 1999

Emissions Unit ID: **P002****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>
Bell furnace #2 for ion exchange process (**Modification)	OAC rule 3745-31-05	3.0 lbs SO <sub>2</sub> per batch cycle; 4.2 TPY SO <sub>2</sub>
	OAC rule 3745-18-06	5.01 lbs Particulate per batch cycle; 7.01 TPY Particulate (as copper salt)
	OAC rule 3745-17-11	The sulfur dioxide limit specified by this rule is less stringent than that specified by OAC rule 3745-31-05.  The particulate limit specified by this rule is less stringent than that specified by OAC rule 3745-31-05.

**2. Additional Terms and Conditions**

- 2.a The 5.01 lbs PM per batch cycle and 3.0 lbs SO<sub>2</sub> per batch cycle limits were established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

**B. Operational Restrictions**

1. The maximum annual sulfur dioxide usage for this emissions unit shall not exceed 4.2 tons.

**Jafe Decorating Co., Inc.**  
PTI Application: **08 2021**  
**Septer**

Facility ID: **0819070215**

Emissions Unit ID: **P002**

2. The maximum annual cuprous chloride usage for this emissions unit shall not exceed 7.01 tons.
3. The maximum annual number of batches for this emissions unit shall not exceed 2800.

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

1. The permittee shall maintain records of all sulfur dioxide cylinder usage, including the start of each cylinder and the end of each cylinder.
2. The permittee shall maintain monthly records of the cuprous chloride usage in this emissions unit.
3. The permittee shall maintain monthly records of the number of batches run in this emissions unit.

**D. Reporting Requirements**

1. The permittee shall submit an exceedance report in accordance with General Term and Condition A.2. within 30 days after the complete usage of each cylinder which identifies an exceedance of the 3.0 lbs SO<sub>2</sub> per batch limitation as well as corrective action taken to achieve compliance.
2. The permittee shall submit annual reports which identify any exceedances of the annual sulfur dioxide usage limitation, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.
3. The permittee shall submit annual reports which identify any exceedances of the annual cuprous chloride usage limitation, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.
4. The permittee shall submit annual reports which identify any exceedances of the batch limitation, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) of these terms and conditions shall be determined in accordance with the following method(s):
  - a. Emission Limitations-  
3.0 lbs SO<sub>2</sub> per batch cycle  
  
Applicable Compliance Method-  
  
Compliance shall be determined in the following manner:

- i. The amount of sulfur dioxide per cylinder shall be determined by subtracting the empty cylinder weight from the full cylinder weight.
    - ii. The sulfur dioxide weight from i. shall be divided by the number of batches as recorded in Section C.3.
  - b. Emission Limitations-  
  
5.01 lbs Particulate per batch cycle  
  
Applicable Compliance Method-  
  
These emission limitations are based upon the maximum material usage rates and conservative assumption that all of the material is lost to the atmosphere.
  - c. Emission Limitations-  
  
4.2 TPY SO<sub>2</sub>  
  
Applicable Compliance Method-  
  
Compliance shall be determined in the following manner:
    - i. The calculated lbs SO<sub>2</sub> per batch numbers, as calculated in Section E.1.a, shall be averaged for the calendar year.
    - ii. The average from i. shall be multiplied by the number of batches for all completed sulfur dioxide tanks for the calendar year.
    - iii. The product from ii shall be divided by 2000 lbs/ton.
  - d. Emission Limitations-  
  
7.01 TPY Particulate  
  
Applicable Compliance Method-  
  
Compliance shall be determined by summing the monthly cuprous chloride usage rates for the calendar year, as recorded in Section C.2, and dividing this sum by 2000 lbs per ton.

e. Emission Limitations-

5% opacity visible emission limitation, as a six minute average.

Applicable Compliance Method-

If required, compliance shall be based on OAC rule 3745-17-03(B)(1) using the methods and procedures specified in USEPA Reference Method 9.

**Jafe D**  
PTI A<sub>1</sub>  
September 1, 1999

Emissions Unit ID: **P002**

**F. Miscellaneous Requirements**

1. \*\*This permit modifies PTI #08-3001 issued December 15, 1993 and accounts for a 2.95 TPY increase in sulfur dioxide emissions and the addition of a 7.01 TPY particulate allowable.
2. The permittee is not subject to Title V permitting requirements as the facility wide potential to emit (PTE) for hazardous air pollutants (HAPs) are less than the major source thresholds of 10 TPY for a single HAP and less than 25 TPY for combined HAPs. This PTI allows the following:

4.15 TPY xylene

0.37 TPY MEK

0.003 TPY ethyl acrylate

1.13 TPY toluene

0.005 TPY methanol

0.04 TPY ethyl benzene

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5.698 TPY combined HAPs

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 OAC rule 3745-31-01. OAC Chapter 3745-77 requires permittees of major sources as defined by OAC rule 3745-77-01 to apply for and obtain a Title V permit when emissions exceed major source thresholds. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would result in an increase in emissions from HAPs above the major source thresholds would require the permittee to apply for and obtain a new permit to install and subsequent Title V permit.

**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>
Bell furnace #3 for ion exchange process	OAC rule 3745-31-05	3.0 lbs SO <sub>2</sub> per batch cycle; 4.2 TPY SO <sub>2</sub>
	OAC rule 3745-18-06	5.01 lbs Particulate per batch cycle; 7.01 TPY Particulate (as copper salt)  The sulfur dioxide limit specified by this rule is less stringent than that specified by OAC rule 3745-31-05.
	OAC rule 3745-17-11	The particulate limit specified by this rule is less stringent than that specified by OAC rule 3745-31-05.

**2. Additional Terms and Conditions**

- 2.a The 5.01 lbs PM per batch cycle and 3.0 lbs SO<sub>2</sub> per batch cycle limits were established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

**B. Operational Restrictions**

- The maximum annual sulfur dioxide usage for this emissions unit shall not exceed 4.2 tons.
- The maximum annual cuprous chloride usage for this emissions unit shall not exceed 7.01 tons.

21

**Jafe D**

PTI A<sub>1</sub>

**September 1, 1999**

Emissions Unit ID: **P003**

3. The maximum annual number of batches for this emissions unit shall not exceed 2800.

**Jafe D**PTI A<sub>1</sub>**September 1, 1999**Emissions Unit ID: **P003****C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall maintain records of all sulfur dioxide cylinder usage, including the start of each cylinder and the end of each cylinder.
2. The permittee shall maintain monthly records of the cuprous chloride usage in this emissions unit.
3. The permittee shall maintain monthly records of the number of batches run in this emissions unit.

**D. Reporting Requirements**

1. The permittee shall submit an exceedance report in accordance with General Term and Condition A.2. within 30 days after the complete usage of each cylinder which identifies an exceedance of the 3.0 lbs SO<sub>2</sub> per batch limitation as well as corrective action taken to achieve compliance.
2. The permittee shall submit annual reports which identify any exceedances of the annual sulfur dioxide usage limitation, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.
3. The permittee shall submit annual reports which identify any exceedances of the annual cuprous chloride usage limitation, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.
4. The permittee shall submit annual reports which identify any exceedances of the batch limitation, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) of these terms and conditions shall be determined in accordance with the following method(s):
  - a. Emission Limitations-  
3.0 lbs SO<sub>2</sub> per batch cycle  
  
Applicable Compliance Method-  
  
Compliance shall be determined in the following manner:

Emissions Unit ID: **P003**

- i. The amount of sulfur dioxide per cylinder shall be determined by subtracting the empty cylinder weight from the full cylinder weight.
  - ii. The sulfur dioxide weight from i. shall be divided by the number of batches as recorded in Section C.3.
- b. Emission Limitations-
- 5.01 lbs Particulate per batch cycle
- Applicable Compliance Method-
- These emission limitations are based upon the maximum material usage rates and conservative assumption that all of the material is lost to the atmosphere.
- c. Emission Limitations-
- 4.2 TPY SO<sub>2</sub>
- Applicable Compliance Method-
- Compliance shall be determined in the following manner:
- i. The calculated lbs SO<sub>2</sub> per batch numbers, as calculated in Section E.1.a, shall be averaged for the calendar year.
  - ii. The average from i. shall be multiplied by the number of batches for all completed sulfur dioxide tanks for the calendar year.
  - iii. The product from ii shall be divided by 2000 lbs/ton.
- d. Emission Limitations-
- 7.01 TPY Particulate
- Applicable Compliance Method-
- Compliance shall be determined by summing the monthly cuprous chloride usage rates for the calendar year, as recorded in Section C.2, and dividing this sum by 2000 lbs per ton.
- e. Emission Limitations-

24

**Jafe D**

PTI A<sub>1</sub>

**September 1, 1999**

Emissions Unit ID: **P003**

5% opacity visible emission limitation, as a six minute average.

Applicable Compliance Method-

If required, compliance shall be based on OAC rule 3745-17-03(B)(1) using the methods and procedures specified in USEPA Reference Method 9.

**Jafe D**PTI A<sub>1</sub>**September 1, 1999**Emissions Unit ID: **P003****F. Miscellaneous Requirements**

1. The permittee is not subject to Title V permitting requirements as the facility wide potential to emit (PTE) for hazardous air pollutants (HAPs) are less than the major source thresholds of 10 TPY for a single HAP and less than 25 TPY for combined HAPs. This PTI allows the following:

4.15 TPY xylene

0.37 TPY MEK

0.003 TPY ethyl acrylate

1.13 TPY toluene

0.005 TPY methanol

0.04 TPY ethyl benzene

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5.698 TPY combined HAPs

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 OAC rule 3745-31-01. OAC Chapter 3745-77 requires permittees of major sources as defined by OAC rule 3745-77-01 to apply for and obtain a Title V permit when emissions exceed major source thresholds. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would result in an increase in emissions from HAPs above the major source thresholds would require the permittee to apply for and obtain a new permit to install and subsequent Title V permit.

**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>
Chemical Reduction Unit- Bell furnace #'s 4 & 5, large reducing gas generator, and small reducing generator (installed spare)	OAC rule 3745-31-05	8.40 lbs/hr and 36.79 TPY CO.
	OAC rule 3745-21-08	The CO limit specified by this rule is less stringent than that specified by OAC rule 3745-31-05.

**2. Additional Terms and Conditions**

- 2.a The 8.40 lbs/hr CO limit was established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

**B. Operational Restrictions**

1. The maximum annual natural gas usage for this emissions unit shall not exceed 3,520,000 cubic feet.

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

1. The permittee shall maintain monthly records of the natural gas usage in this emissions unit.

**D. Reporting Requirements**

**Jafe Decorating Co., Inc.**  
PTI Application: **08 2021**  
**Septer**

Facility ID: **0819070215**

Emissions Unit ID: **P004**

1. The permittee shall submit annual reports in accordance with General Term and Condition A.2. which identify any exceedances of the annual natural gas usage limitation for this emissions unit as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.

**E. Testing Requirements**

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

- a. Emission Limitation-

8.4 lbs/hr CO

Applicable Compliance Method-

This emission limitation is based upon the maximum hourly natural gas usage and the partial combustion equation supplied by the facility in the application for this emissions unit.

\*\*This generator reacts natural gas with oxygen under oxygen deficient conditions to generate a gas that is rich in H<sub>2</sub> and CO. If the amount of gas combusted remains at the permitted level then the CO product will be within the set allowable.\*\*

- b. Emission Limitation-

36.79 TPY CO

Applicable Compliance Method-

Compliance shall be determined by multiplying the maximum hourly emission rate of 8.4 lbs/hr by the maximum operation schedule of 8760 hrs/yr and converting to tons by dividing by 2000 lbs/ton.

**F. Miscellaneous Requirements**

1. The permittee is not subject to Title V permitting requirements as the facility wide potential to emit (PTE) for hazardous air pollutants (HAPs) are less than the major source thresholds of 10 TPY for a single HAP and less than 25 TPY for combined HAPs. This PTI allows the following:

4.15 TPY xylene  
0.37 TPY MEK  
0.003 TPY ethyl acrylate  
1.13 TPY toluene  
0.005 TPY methanol

0.04 TPY ethyl benzene

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5.698 TPY combined HAPs

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 OAC rule 3745-31-01. OAC Chapter 3745-77 requires permittees of major sources as defined by OAC rule 3745-77-01 to apply for and obtain a Title V permit when emissions exceed major source thresholds. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would result in an increase in emissions from HAPs above the major source thresholds would require the permittee to apply for and obtain a new permit to install and subsequent Title V permit.

**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>
Slurry Dip Tank and Assoc. Electric lehr furnace for bulb coating	OAC rule 3745-31-05	4.2 lbs/hr OC; 100.8 lbs/day OC; and 18.4 TPY OC (as isopropyl alcohol)
	OAC rule 3745-21-07 (G)(9)(f)	The OC limit specified by this rule is equivalent to that specified by OAC rule 3745-31-05. (See A.2.b.)

**2. Additional Terms and Conditions**

- 2.a** The 4.2 lbs OC/hour limit was established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.
- 2.b** The use of photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), in this emissions unit is prohibited.

**B. Operational Restrictions**

None.

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

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

- a. The company identification for the coating material employed.
- b. The number of gallons of the coating material employed.
- c. The organic compound content of the coating material, in pounds per gallon.
- d. The total organic compound emission rate for the coating materials, in pounds per day.

[Note: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit.]

2. 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 in accordance with General Term and Condition A.2. which include the following information:
  - a. An identification of each day during which the total organic compound emissions exceeded 100.8 pounds per day, and the actual organic compound emissions for each such day.
2. The permittee shall also submit annual reports which specify the total organic compound emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

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

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

a. Emission Limitation-

4.2 lbs/hr OC

Applicable Compliance Method-

This limitation was calculated by multiplying the maximum hourly slurry usage, 0.57 lb/hr, by the voc content of the slurry, 7.35 lbs/gal.

b. Emission Limitation-

100.8 lbs/day OC

Applicable Compliance Method-

Compliance shall be based upon the record keeping as specified in Section C.1.d.

c. Emission Limitation-

18.4 TPY OC

Applicable Compliance Method-

Compliance shall be determined by summing the daily emission calculations, as required in Section C.1.d., for the calendar year and converting to tons by dividing by 2000 lbs/tons.

## **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 Toxic 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 Toxic 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: isopropyl alcohol**

**TLV (ug/m<sup>3</sup>):**  $1 \times 10^6$

**Maximum Hourly Emission Rate (lbs/hr):** 4.2

**Predicted 1 Hour Maximum Ground-Level Concentration at the Fenceline (ug/m<sup>3</sup>):** 2.284

**Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m<sup>3</sup>):**  $2.38 \times 10^4$

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

**Jafe D**PTI A<sub>1</sub>**September 1, 1999**Emissions Unit ID: **K001**

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;

Emissions Unit ID: K001

- 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, determines that the changed emissions unit still satisfies the Air Toxic 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.

- 2. The permittee is not subject to Title V permitting requirements as the facility wide potential to emit (PTE) for hazardous air pollutants (HAPs) are less than the major source thresholds of 10 TPY for a single HAP and less than 25 TPY for combined HAPs. This PTI allows the following:

- 4.15 TPY xylene
- 0.37 TPY MEK
- 0.003 TPY ethyl acrylate
- 1.13 TPY toluene
- 0.005 TPY methanol
- 0.04 TPY ethyl benzene

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5.698 TPY combined HAPs

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 OAC rule 3745-31-01. OAC Chapter 3745-77 requires permittees of major sources as defined by OAC rule 3745-77-01 to apply for and obtain a Title V permit when emissions exceed major source thresholds. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would result in an increase in emissions from HAPs above the major source thresholds would require the permittee to apply for and obtain a new permit to install and subsequent Title V permit.

**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>
Two small spray paint booths for glass coating	OAC rule 3745-31-05  OAC rule 3745-21-07(G)(2)	0.37lb/hr VOC (including cleanup), 8.88 lbs/day VOC (including cleanup); and 1.62 TPY VOC (including cleanup).  The VOC limit specified by this rule is less stringent than that specified by OAC rule 3745-31-05.

**2. Additional Terms and Conditions**

- 2.a None.

**B. Operational Restrictions**

None.

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

1. The permittee shall collect and record the following information for each day for the coating operation:
  - a. The company identification for each coating and photochemically reactive cleanup material employed.

- b. The number of gallons of each coating and photochemically reactive cleanup material employed.
- c. The organic compound content of each coating and photochemically reactive cleanup material, in pounds per gallon.
- d. The number of gallons of cleanup material recovered.
- e. The total organic compound emission rate for all coatings and photochemically reactive cleanup materials, in pounds per day.
- f. The total number of hours the emissions unit was in operation.
- 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 material" is based upon OAC rule 3745-21-01(C)(5).]

2. 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 in accordance with General Term and Condition A.2. 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 0.37 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 8.88 pounds per day, and the actual organic compound emissions for each such day.

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

1. Compliance with the emission limitation(s) of these terms and conditions shall be determined in accordance with the following method(s):
  - a. Emission Limitation-  
  
0.37 lb/hr VOC, including cleanup  
  
Applicable Compliance Method-  
  
Compliance shall be based on the record keeping requirement as specified in Section C.1.g. of these terms and conditions.
  - b. Emission Limitation-  
  
8.88 lbs/day VOC, including cleanup  
  
Applicable Compliance Method-  
  
Compliance shall be based on the record keeping requirement as specified in Section C.1.e. of these terms and conditions.
  - c. Emission Limitation-  
  
1.62 TPY VOC, including cleanup  
  
Applicable Compliance Method-  
  
Compliance shall be determined by summing the daily emission calculations, as required in Section C.1.e., for the calendar year and converting to tons by dividing by 2000 lbs/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 Toxic 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 Toxic 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: Xylene****TLV (ug/m3): 4.34E 5****Maximum Hourly Emission Rate (lbs/hr): 0.37****Predicted 1 Hour Maximum Ground-Level Concentration at the Fenceline (ug/m3): 26.88****Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m3): 434.19**

**Pollutant: toluene****TLV (ug/m3): 1.88 E 5****Maximum Hourly Emission Rate (lbs/hr): 0.37****Predicted 1 Hour Maximum Ground-Level Concentration at the Fenceline (ug/m3): 26.88****Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m3): 1884****Pollutant: MEK****TLV (ug/m3): 5.89 E 5****Maximum Hourly Emission Rate (lbs/hr): 0.37****Predicted 1 Hour Maximum Ground-Level Concentration at the Fenceline (ug/m3): 29.79****Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m3): 5897.8**

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:

**Jafe Decorating Co., Inc.**  
 PTI Application: **08 2021**  
**Septer**

Facility ID: **0819070215**

Emissions Unit ID: **K002**

- 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, determines that the changed emissions unit still satisfies the Air Toxic 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.

2. The permittee is not subject to Title V permitting requirements as the facility wide potential to emit (PTE) for hazardous air pollutants (HAPs) are less than the major source thresholds of 10 TPY for a single HAP and less than 25 TPY for combined HAPs. This PTI allows the following:

4.15 TPY xylene  
 0.37 TPY MEK  
 0.003 TPY ethyl acrylate  
 1.13 TPY toluene  
 0.005 TPY methanol  
 0.04 TPY ethyl benzene  
 -----  
 5.698 TPY combined HAPs

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 OAC rule 3745-31-01. OAC Chapter 3745-77 requires permittees of major sources as defined by OAC rule 3745-77-01 to apply for and obtain a Title V permit when emissions exceed major source thresholds. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would result in an increase in emissions from HAPs above the major source thresholds would require the permittee to apply for and obtain a new permit to install and subsequent Title V permit.

**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>
Large Binks Spray Booth #1 for glass coating	OAC rule 3745-31-05  OAC rule 3745-21-07(G)(2)	1.12 lbs/hr VOC (incl. cleanup), 26.88 lbs/day VOC (incl. cleanup); and 4.91 TPY VOC (incl. cleanup)  The VOC limit specified by this rule is less stringent than that specified by OAC rule 3745-31-05.

2. **Additional Terms and Conditions**

- 2.a None

**B. Operational Restrictions**

None.

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

1. The permittee shall collect and record the following information for each day for the coating operations:
  - a. The company identification for each coating and photochemically reactive cleanup material employed.

Emissions Unit ID: **K003**

- b. The number of gallons of each coating and photochemically reactive cleanup material employed.
- c. The organic compound content of each coating and photochemically reactive cleanup material, in pounds per gallon.
- d. The number of gallons of cleanup material recovered.
- e. The total organic compound emission rate for all coatings and photochemically reactive cleanup materials, in pounds per day.
- f. The total number of hours the emissions unit was in operation.
- 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 material" is based upon OAC rule 3745-21-01(C)(5).]

2. 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 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 1.12 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 26.88 pounds per day,

**Jafe D**

PTI A<sub>1</sub>

**September 1, 1999**

Emissions Unit ID: **K003**

and the actual organic compound emissions for each such day.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) of these terms and conditions shall be determined in accordance with the following method(s):
  - a. Emission Limitation-  
1.12 lbs/hr VOC, including cleanup

**Jafe D**  
**PTI A<sub>1</sub>**  
**September 1, 1999**

Emissions Unit ID: **K003**

Applicable Compliance Method-

Compliance shall be based on the record keeping requirement as specified in Section C.1.g. of these terms and conditions.

b. Emission Limitation-

26.88 lbs/day VOC, including cleanup

Applicable Compliance Method-

Compliance shall be based on the record keeping requirement as specified in Section C.1.e. of these terms and conditions.

c. Emission Limitation-

4.91 TPY VOC, including cleanup

Applicable Compliance Method-

Compliance shall be determined by summing the daily emission calculations, as required in Section C.1.e., for the calendar year and converting to tons by dividing by 2000 lbs/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 Toxic 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 Toxic 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: Xylene**

**TLV (ug/m<sup>3</sup>): 4.34E 5**

**Jafe Decorating Co., Inc.**  
PTI Application: 08 2021  
Septer

Facility ID: 0819070215

Emissions Unit ID: **K003**

**Maximum Hourly Emission Rate (lbs/hr): 1.12**

**Predicted 1 Hour Maximum Ground-Level Concentration at the Fenceline (ug/m3): 48.35**

**Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m3): 434.19**

**Jafe D**PTI A<sub>1</sub>**September 1, 1999**Emissions Unit ID: **K003****Pollutant: toluene****TLV (ug/m3): 1.88 E 5****Maximum Hourly Emission Rate (lbs/hr): 1.12****Predicted 1 Hour Maximum Ground-Level Concentration at the Fenceline (ug/m3): 48.35****Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m3): 1884****Pollutant: MEK****TLV (ug/m3): 5.89 E 5****Maximum Hourly Emission Rate (lbs/hr): 1.12****Predicted 1 Hour Maximum Ground-Level Concentration at the Fenceline (ug/m3): 48.35****Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m3): 5897.8**

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:

**Jafe D**  
**PTI A<sub>1</sub>**  
**September 1, 1999**

Emissions Unit ID: **K003**

- 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, determines that the changed emissions unit still satisfies the Air Toxic 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.

2. The permittee is not subject to Title V permitting requirements as the facility wide potential to emit (PTE) for hazardous air pollutants (HAPs) are less than the major source thresholds of 10 TPY for a single HAP and less than 25 TPY for combined HAPs. This PTI allows the following:

4.15 TPY xylene  
 0.37 TPY MEK  
 0.003 TPY ethyl acrylate  
 1.13 TPY toluene  
 0.005 TPY methanol  
 0.04 TPY ethyl benzene  
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 5.698 TPY combined HAPs

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 OAC rule 3745-31-01. OAC Chapter 3745-77 requires permittees of major sources as defined by OAC rule 3745-77-01 to apply for and obtain a Title V permit when emissions exceed major source thresholds. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would result in an increase in emissions from HAPs above the major source thresholds would require the permittee to apply for and obtain a new permit to install and subsequent Title V permit.

**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>
Small Slurry spray booth for glass coating	OAC rule 3745-31-05	3.7 lbs/hr OC (excl. cleanup); 88.8 lbs/day OC (incl. cleanup); 16.2 TPY OC, including cleanup (as isopropyl alcohol)
	OAC rule 3745-21-07(G)(9)(f)	The OC limit specified by this rule is less stringent than that specified by OAC rule 3745-31-05.

**2. Additional Terms and Conditions**

- 2.a** The use of photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), in this emissions unit is prohibited.
- 2.b** The 3.7 lbs/hr OC limit was developed to reflect the potential to emit for the emissions unit. Therefore, it is not necessary to develop record keeping and reporting requirements to ensure compliance with this limit.

**B. Operational Restrictions**

None.

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

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

coating operation:

- a. The company identification for each coating and cleanup material employed.
- b. The number of gallons of each coating and cleanup material employed.
- c. The number of gallons of each coating and cleanup material employed each hour of the day.
- d. The number of gallons of cleanup material recovered.
- e. The organic compound content of each coating and cleanup material, in pounds per gallon.
- f. The total organic compound emission rate for all coatings and cleanup materials, in pounds per day.

[Note: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit.]

2. 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 include the following information:
  - a. An identification of each day during which the total organic compound emissions exceeded 88.8 pounds per day, and the actual organic compound emissions for each such day.
2. The permittee shall also submit annual reports which specify the total organic compound emissions from this emissions unit for the previous calendar year. These

reports shall be submitted by January 31 of each year.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) of these terms and conditions shall be determined in accordance with the following method(s):
  - a. Emission Limitation-  
3.7 lbs/hr OC, excluding cleanup

Applicable Compliance Method-

This limitation was calculated by multiplying the maximum hourly slurry usage, 0.5 lb/hr, by the voc content of the slurry, 7.35 lbs/gal.

b. Emission Limitation-

88.8 lbs/day OC, including cleanup

Applicable Compliance Method-

Compliance shall be based on the record keeping requirement as specified in Section C.1.f. of these terms and conditions.

c. Emission Limitation-

16.2 TPY OC, including cleanup

Applicable Compliance Method-

Compliance shall be determined by summing the daily emission calculations, as required in Section C.1.f., for the calendar year and converting to tons by dividing by 2000 lbs/ton.

**F. Miscellaneous Requirements**

1. This permit allows the use of the coatings and cleanup materials specified by the permittee in the application for PTI number 08-3921. In conjunction with the best available technology requirements of OAC rule 3745-31-05, the isopropyl alcohol, MEK, and xylene emission limitation(s) specified in this permit was (were) established in accordance with the Ohio EPA's "Air Toxics Policy" and is (are) based on both the coating and cleanup material formulation data and the design parameters of the emissions unit's exhaust system, as specified in the application. Compliance with the Ohio EPA's "Air Toxics Policy" was demonstrated for each pollutant based on the Screen 3 model and a comparison of the predicted 1 hour maximum ground-level concentration to the MAGLC. The following summarizes the results of the modeling for each pollutant:

**Pollutant: isopropyl alcohol**

**TLV (ug/m3):**  $1 \times 10^6$

**Maximum Hourly Emission Rate (lbs/hr):** 3.7

**Jafe Decorating Co., Inc.**  
PTI Application: **08 2021**  
**Septer**

Facility ID: **0819070215**

Emissions Unit ID: **K005**

**Predicted 1 Hour Maximum Ground-Level Concentration at the Fenceline (ug/m3): 271.0**  
**Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m3):  $2.38 \times 10^4$**

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, determines that the changed emissions unit still satisfies the Air Toxic 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.

**Jafe D**PTI A<sub>1</sub>**September 1, 1999**Emissions Unit ID: **K005**

2. The permittee is not subject to Title V permitting requirements as the facility wide potential to emit (PTE) for hazardous air pollutants (HAPs) are less than the major source thresholds of 10 TPY for a single HAP and less than 25 TPY for combined HAPs. This PTI allows the following:

4.15 TPY xylene

0.37 TPY MEK

0.003 TPY ethyl acrylate

1.13 TPY toluene

0.005 TPY methanol

0.04 TPY ethyl benzene

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5.698 TPY combined HAPs

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 OAC rule 3745-31-01. OAC Chapter 3745-77 requires permittees of major sources as defined by OAC rule 3745-77-01 to apply for and obtain a Title V permit when emissions exceed major source thresholds. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would result in an increase in emissions from HAPs above the major source thresholds would require the permittee to apply for and obtain a new permit to install and subsequent Title V permit.

**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>
Large Binks Spray Booth #2 for glass coating	OAC rule 3745-31-05	1.12 lbs/hr VOC (incl. cleanup), 26.88 lbs/day VOC (incl. cleanup)and 4.91 TPY VOC (incl. cleanup)
	OAC rule 3745-21-07(G)(2)	The VOC limit specified by this rule is less stringent than that specified by OAC rule 3745-31-05.

**2. Additional Terms and Conditions**

- 2.a None.

**B. Operational Restrictions**

None.

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

1. The permittee shall collect and record the following information for each day for the coating operation:
- a. The company identification for each coating and photochemically reactive cleanup material

- employed.
- b. The number of gallons of each coating and photochemically reactive cleanup material employed.
  - c. The organic compound content of each coating and photochemically reactive cleanup material, in pounds per gallon.
  - d. The number of gallons of cleanup material recovered.
  - e. The total organic compound emission rate for all coatings and photochemically reactive cleanup materials, in pounds per day.
  - f. The total number of hours the emissions unit was in operation.
  - g. The average hourly organic compound emission rate for all coatings and photochemically reactive cleanup materials, i.e., (d)/(e), 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 material" is based upon OAC rule 3745-21-01(C)(5).]

2. 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 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 1.12 pounds per hour, and the actual average hourly organic compound emissions for each such day.

**Jafe D**  
PTI A<sub>1</sub>  
**September 1, 1999**

Emissions Unit ID: **K004**

- b. An identification of each day during which the organic compound emissions from the coatings and photochemically reactive cleanup materials exceeded 26.88 pounds per day, and the actual organic compound emissions for each such day.

**E. Testing Requirements**

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

- a. Emission Limitation-
- 1.12 lbs/hr VOC, including cleanup
- Applicable Compliance Method-
- Compliance shall be based on the record keeping requirement as specified in Section C.1.g. of these terms and conditions.
- b. Emission Limitation-
- 26.88 lbs/day VOC, including cleanup
- Applicable Compliance Method-
- Compliance shall be based on the record keeping requirement as specified in Section C.1.e. of these terms and conditions.
- c. Emission Limitation-
- 4.91 TPY VOC, including cleanup
- Applicable Compliance Method-
- Compliance shall be determined by summing the daily emission calculations, as required in Section C.1.e., for the calendar year and converting to tons by dividing by 2000 lbs/ton.

## **F. Miscellaneous Requirements**

1. This permit allows the use of the coatings and cleanup materials specified by the permittee in the application for PTI number 08-3921. In conjunction with the best available technology requirements of OAC rule 3745-31-05, the isopropyl alcohol, MEK, and xylene emission limitation(s) specified in this permit was (were) established in accordance with the Ohio EPA's "Air Toxics Policy" and is (are) based on both the coating and cleanup material formulation data and the design parameters of the emissions unit's exhaust system, as specified in the application. Compliance with the Ohio EPA's "Air Toxics Policy" was demonstrated for each pollutant based on the Screen 3 model and a comparison of the predicted 1 hour maximum ground-level concentration to the MAGLC. The following summarizes the results of the modeling for each pollutant:

**Pollutant: Xylene****TLV (ug/m3): 4.34E 5****Maximum Hourly Emission Rate (lbs/hr): 1.12****Predicted 1 Hour Maximum Ground-Level Concentration at the Fenceline (ug/m3): 48.35****Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m3): 434.19****Pollutant: toluene****TLV (ug/m3): 1.88 E 5****Maximum Hourly Emission Rate (lbs/hr): 1.12****Predicted 1 Hour Maximum Ground-Level Concentration at the Fenceline (ug/m3): 48.35****Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m3): 1884****Pollutant: MEK****TLV (ug/m3): 5.89 E 5****Maximum Hourly Emission Rate (lbs/hr): 1.12****Predicted 1 Hour Maximum Ground-Level Concentration at the Fenceline (ug/m3): 48.35****Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m3): 5897.8**

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- 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, determines that the changed emissions unit still satisfies the Air Toxic 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.

- 2. The permittee is not subject to Title V permitting requirements as the facility wide potential to emit (PTE) for hazardous air pollutants (HAPs) are less than the major source thresholds of 10 TPY for a single HAP and less than 25 TPY for combined HAPs. This PTI allows the following:

4.15 TPY xylene  
 0.37 TPY MEK  
 0.003 TPY ethyl acrylate  
 1.13 TPY toluene  
 0.005 TPY methanol  
 0.04 TPY ethyl benzene  
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 5.698 TPY combined HAPs

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 OAC rule 3745-31-01. OAC Chapter 3745-77 requires permittees of major sources as defined by OAC rule 3745-77-01 to apply for and obtain a Title V permit when emissions exceed major source thresholds. The permittee is hereby advised that changes in the composition of

**Jafe Decorating Co., Inc.**  
PTI Application: **08 2021**  
**Septer**

Facility ID: **0819070215**

Emissions Unit ID: **K004**

the materials, or use of new materials, that would result in an increase in emissions from HAPs above the major source thresholds would require the permittee to apply for and obtain a new permit to install and subsequent Title V permit.