



State of Ohio Environmental Protection Agency

Street Address:

Mailing Address:

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

Lazarus Gov.
Center

**RE: DRAFT PERMIT TO INSTALL
FRANKLIN COUNTY
Application No: 01-8022**

CERTIFIED MAIL

DATE: December 22, 1999

J.S. MacLean Company
Robert Guda
5454 Alkire Road
Columbus, OH 43228

You are hereby notified that the Ohio Environmental Protection Agency has made a draft action recommending that the Director issue a Permit to Install for the air contaminant source(s) [emissions unit(s)] shown on the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the proposed installation. A public notice concerning the draft permit will appear in the Ohio EPA Weekly Review and the newspaper in the county where the facility will be located. Public comments will be accepted by the field office within 30 days of the date of publication in the newspaper. Any comments you have on the draft permit should be directed to the appropriate field office within the comment period. A copy of your comments should also be mailed to Robert Hodanbosi, Division of Air Pollution Control, Ohio EPA, P.O. Box 1049, Columbus, OH, 43266-0149.

A Permit to Install may be issued in proposed or final form based on the draft action, any written public comments received within 30 days of the public notice, or record of a public meeting if one is held. You will be notified in writing of a scheduled public meeting. Upon issuance of a final Permit to Install a fee of \$ 400 will be due. Please do not submit any payment now.



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. If you have any questions about this draft permit, please contact the field office where you submitted your application, or Mike Ahern, Field Operations & Permit Section at (614) 644-3631.

Very truly yours,

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

cc: USEPA
DAPC, CDO
Mid-Ohio Regional Planning Commission

**Permit To Install
Terms and
Conditions**

**Issue Date: To be entered upon final issuance
Effective Date: To be entered upon final issuance**

DRAFT PERMIT TO INSTALL 01-8022

Application Number: 01-8022
APS Premise Number: 0125041904
Permit Fee: **To be entered upon final issuance**
Name of Facility: J.S. MacLean Company
Person to Contact: Robert Guda
Address: 5454 Alkire Road
Columbus, OH 43228

Location of proposed air contaminant source(s) [emissions unit(s)]:
**5454 Alkire Road
Columbus, Ohio**

Description of proposed emissions unit(s):
TWO PAINT SPRAY BOOTHS FOR FINISHING WOOD PRODUCTS.

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

Date: To be entered upon final issuance

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

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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

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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

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commencing operation of the emissions unit(s) covered by this permit.

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>
Organic Compounds	14.6
Single HAP	9.9

PART II: SPECIAL TERMS AND CONDITIONS

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>
Paint spray booth #1	OAC rule 3745-31-05	Organic compound emissions shall not exceed 7.3 tons per year, including cleanup. See A.2.c. below.
	OAC rule 3745-35-07(B)	See A.2.b. below.
	OAC rule 3745-21-07(G)(2)	Organic compound emissions shall not exceed 8.0 lbs/hr and 40.0 lbs/day, including cleanup.

2. Additional Terms and Conditions

- 2.a This Permit to Install (01-8022) replaces Permit to Install 01-1859 issued on June 8, 1988 for emission units R001 and R002.
- 2.b Emissions of any individual hazardous air pollutant (HAP) from R001 and R002 shall not exceed 9.9 tons per year based upon a rolling, 12-month summation of the monthly emissions. Emissions of any individual hazardous air pollutant (HAP) from R001 and R002 shall not exceed 0.83 ton per month.
- 2.c The control efficiency of the filters controlling particulate matter emissions from emissions unit R001 shall be at least 95% by weight.

B. Operational Restrictions

- 1. Emission unit R001 shall be operated and maintained in accordance to manufacturer's

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recommendations. Spray booth exhaust filters shall be maintained (changed or cleaned) regularly per manufacturer's recommendations in order to maintain the highest effective level of particulate emissions control. Maintenance of exhaust filters (cleaning and/or changing of filter elements) shall be recorded in an operations log maintained at the facility.

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 organic compound content of each coating and cleanup material, in pounds per gallon.
 - d. The total organic compound emission rate for all coatings and cleanup materials, in pounds per day.
 - e. The total number of hours the emissions unit was in operation.
 - f. The average hourly organic compound emission rate for all coatings and cleanup materials, i.e., (d)/(e), in pounds per hour (average).
2. The permittee shall collect and record the following facility-wide information for each month for the purpose of determining the annual and rolling 12-month emissions of individual HAPs:
 - a. The individual HAP content of each coating and cleanup material employed, in lbs of individual HAP/gallon.
 - b. The calculated, emission rate of each individual HAP from all coatings employed, i.e., the summation of C.1.b. times C.2.a., respectively, divided by 2,000 lbs/ton.
 - c. The monthly summation of each individual HAP from emission units R001 and R002.
 - d. The calculated rolling 12-month emission rate of each individual HAP from emission units R001 and R002.

D. Reporting Requirements

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Facility ID: **0125041904**

Emissions Unit ID: **R001**

1. In accordance with the General terms and Conditions, 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 8 pounds per hour, and the actual average hourly organic compound emissions for each such day.
 - b. An identification of each day during which the organic compound emissions from the coatings and photochemically reactive cleanup materials exceeded 40 pounds per day, and the actual organic compound emissions for each such day.
 - c. An identification of all exceedances of the rolling, 12-month emission limitation for individual HAPs.
2. The permittee shall also submit annual reports which specify the total organic compound emissions and individual HAP emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

E. Testing Requirements

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):

1. Emission Limitation:

Organic compound emissions shall not exceed 8.0 lbs/hr, including cleanup.

Applicable Compliance Method:

Compliance with the hourly OC limit shall be determined through daily record keeping of coating and cleanup material usage, the organic compound content of each coating and cleanup material, and operating hours per day for emission unit R001. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the cleanup materials. USEPA Method 24 shall be used to determine the organic compound contents of the coatings. Hourly emissions shall be calculated by multiplying the maximum OC content of the coating/cleanup material used (lbs OC/gallon of coating or cleanup) with the coating/cleanup materials maximum usage in any hour (gallons/hr). Calculations shall be documented as follows:

OC emissions/hr = (lbs OC/gallon of coating used)*(maximum coating usage in gallons/hr)

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2. Emission Limitation:

Organic compound emissions shall not exceed 40.0 lbs/day, including cleanup.

Applicable Compliance Method:

Compliance with the daily OC limit shall be determined through daily record keeping of each coating and cleanup material used and documentation on the chemical organic compound content of each coating. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the cleanup materials. USEPA Method 24 shall be used to determine the organic compound contents of the coatings. **Daily emissions shall be calculated by multiplying the maximum OC content of each material used (lbs OC/gallon of material) with the coating/cleanup material's usage each day and summing these amounts. Calculations shall be documented as follows:**

$$OC_{i=1} \text{ emissions/day} = \sum^n (\text{lbs OC/gal of coating}_i) * (\text{coating}_i \text{ usage in gal/day}) + \dots + (\text{lbs OC/gal of coating}_n) * (\text{coating}_n \text{ usage in gal/day}) + (\text{lbs OC/gal of cleanup material}) * (\text{cleanup material usage in gal/day})$$

i = 1st coating, of the types of coating for the source.

n = nth coating, from the total number of types of coatings used.

3. Emission Limitation:

Organic compound emissions shall not exceed 7.3 tons/year, including cleanup.

Applicable Compliance Method:

Compliance with the yearly OC limit shall be determined through the daily record keeping of the coating and cleanup materials used and the organic compound content of each coating. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the cleanup materials. USEPA Method 24 shall be used to determine the organic compound contents of the coatings. **Annual emissions shall be calculated either by adding the amounts of each type of coating and cleanup material used during the year and multiplying each material's use with the OC content of each coating and cleanup material and adding these emissions, or shall be calculated from monthly emission calculations and these amounts added together at the end of each year. Calculations shall be documented as follows:**

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Emissions Unit ID: **R001**

Annual $\sum_{i=1}^n$ OC emissions/yr = \sum^n (lbs OC/gal of coating_i)*(coating_i usage in gal/yr)+.....+(lbs OC/gal of coating_n)*(coating_n usage in gal/yr)+(lbs OC/gal of cleanup material)*(cleanup material usage in gal/yr)

i = 1st coating, of the types of coating for the source.

n = nth coating, from the total number of types of coatings used.

4. Emission Limitation-

The annual, individual HAP emissions from R001 and R002 at this facility shall not exceed 9.9 tons per year based upon a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Method:

Compliance with the above emission limitation shall be demonstrated through the records required pursuant to Section C.

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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: V.M. & P. Naphtha

TLV (ug/m³): 1,370,000

Maximum Hourly Emission Rate (lbs/hr): 1.4

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³):104.7

MAGLC (ug/m³): 32,620

Pollutant: Xylene

TLV (ug/m³): 434,000

Maximum Hourly Emission Rate (lbs/hr):1.3

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³):97.1

MAGLC (ug/m³): 10,333

Pollutant: Isobutyl Acetate

TLV (ug/m³): 713,000

Maximum Hourly Emission Rate (lbs/hr):1.25

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³):93.5

MAGLC (ug/m³): 16,976

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

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(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.

PART II: SPECIAL TERMS AND CONDITIONS [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>
Paint spray booth #2	OAC rule 3745-31-05	Organic compound emissions shall not exceed 7.3 tons per year, including cleanup. See A.2.c. below.
	OAC rule 3745-35-07(B)	See A.2.b. below.
	OAC rule 3745-21-07(G)(2)	Organic compound emissions shall not exceed 8.0 lbs/hr and 40.0 lbs/day, including cleanup.

2. Additional Terms and Conditions

- 2.a** This Permit to Install (01-8022) replaces Permit to Install 01-1859 issued on June 8, 1988 for emission units R001 and R002.
- 2.b** Emissions of any individual hazardous air pollutant (HAP) from R001 and R002 shall not exceed 9.9 tons per year based upon a rolling, 12-month summation of the monthly emissions. Emissions of any individual hazardous air pollutant (HAP) from R001 and R002 shall not exceed 0.83 ton per month.
- 2.c** The control efficiency of the filters controlling particulate matter emissions from emissions unit R001 shall be at least 95% by weight.

B. Operational Restrictions

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1. Emission unit R002 shall be operated and maintained in accordance to manufacturer's recommendations. Spray booth exhaust filters shall be maintained (changed or cleaned) regularly per manufacturer's recommendations in order to maintain the highest effective level of particulate emissions control. Maintenance of exhaust filters (cleaning and/or changing of filter elements) shall be recorded in an operations log maintained at the facility.

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 organic compound content of each coating and cleanup material, in pounds per gallon.
- d. The total organic compound emission rate for all coatings and cleanup materials, in pounds per day.
- e. The total number of hours the emissions unit was in operation.
- f. The average hourly organic compound emission rate for all coatings and cleanup materials, i.e., (d)/(e), in pounds per hour (average).

2. The permittee shall collect and record the following facility-wide information for each month for the purpose of determining the annual and rolling 12-month emissions of individual HAPs:

- a. The individual HAP content of each coating and cleanup material employed, in lbs of individual HAP/gallon.
- b. The calculated, emission rate of each individual HAP from all coatings employed, i.e., the summation of C.1.b. times C.2.a., respectively, divided by 2,000 lbs/ton.
- c. The monthly summation of each individual HAP from emission units R001 and R002.
- d. The calculated rolling 12-month emission rate of each individual HAP from emission units R001 and R002.

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D. Reporting Requirements

1. In accordance with the General terms and Conditions, 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 8 pounds per hour, and the actual average hourly organic compound emissions for each such day.
 - b. An identification of each day during which the organic compound emissions from the coatings and photochemically reactive cleanup materials exceeded 40 pounds per day, and the actual organic compound emissions for each such day.
 - c. An identification of all exceedances of the rolling, 12-month emission limitation for individual HAPs.
2. The permittee shall also submit annual reports which specify the total organic compound emissions and individual HAP emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

E. Testing Requirements

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):

1. Emission Limitation:

Organic compound emissions shall not exceed 8.0 lbs/hr, including cleanup.

Applicable Compliance Method:

Compliance with the hourly OC limit shall be determined through daily record keeping of coating and cleanup material usage, the organic compound content of each coating and cleanup material, and operating hours per day for emission unit R001. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the cleanup materials. USEPA Method 24 shall be used to determine the organic compound contents of the coatings. Hourly emissions shall be calculated by multiplying the maximum OC content of the coating/cleanup material used (lbs OC/gallon of coating or cleanup) with the coating/cleanup

Emissions Unit ID: R002

materials maximum usage in any hour (gallons/hr). Calculations shall be documented as follows:

$$\text{OC emissions/hr} = (\text{lbs OC/gallon of coating used}) * (\text{maximum coating usage in gallons/hr})$$

2. Emission Limitation:

Organic compound emissions shall not exceed 40.0 lbs/day, including cleanup.

Applicable Compliance Method:

Compliance with the daily OC limit shall be determined through daily record keeping of each coating and cleanup material used and documentation on the chemical organic compound content of each coating. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the cleanup materials. USEPA Method 24 shall be used to determine the organic compound contents of the coatings. Daily emissions shall be calculated by multiplying the maximum OC content of each material used (lbs OC/gallon of material) with the coating/cleanup material's usage each day and summing these amounts. Calculations shall be documented as follows:

$$\text{OC}_{i=1} \text{ emissions/day} = \sum^n (\text{lbs OC/gal of coating}_i) * (\text{coating}_i \text{ usage in gal/day}) + \dots + (\text{lbs OC/gal of coating}_n) * (\text{coating}_n \text{ usage in gal/day}) + (\text{lbs OC/gal of cleanup material}) * (\text{cleanup material usage in gal/day})$$

i = 1st coating, of the types of coating for the source.

n = nth coating, from the total number of types of coatings used.

3. Emission Limitation:

Organic compound emissions shall not exceed 7.3 tons/year, including cleanup.

Applicable Compliance Method:

Compliance with the yearly OC limit shall be determined through the daily record keeping of the coating and cleanup materials used and the organic compound content of each coating. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the cleanup materials. USEPA Method 24 shall be used to determine the organic compound contents of the coatings. Annual emissions shall be calculated either by adding the amounts of each type of coating and cleanup material used during the year and multiplying each material's use with the OC content of each coating and cleanup material and adding these emissions, or shall be calculated from monthly emission calculations and these amounts added together at the end of each year. Calculations shall be documented as follows:

J.S. MPTI A₁Emissions Unit ID: **R002****Date: To be entered upon final issuance**

Annual $\sum_{i=1}^n$ OC emissions/yr = \sum^n (lbs OC/gal of coating_i)*(coating_i usage in gal/yr)+.....+(lbs OC/gal of coating_n)*(coating_n usage in gal/yr)+(lbs OC/gal of cleanup material)*(cleanup material usage in gal/yr)

i = 1st coating, of the types of coating for the source.

n = nth coating, from the total number of types of coatings used.

4. Emission Limitation-

The annual, individual HAP emissions from R001 and R002 at this facility shall not exceed 9.9 tons per year based upon a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Method:

Compliance with the above emission limitation shall be demonstrated through the records required pursuant to Section C.

J.S. MacLean Company
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Date:

Facility ID: **0125041904**

Emissions Unit ID: **R002**

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: V.M. & P. Naphtha

TLV (ug/m3): 1,370,000

Maximum Hourly Emission Rate (lbs/hr): 1.4

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3):104.7

MAGLC (ug/m3): 32,620

Pollutant: Xylene

TLV (ug/m3): 434,000

Maximum Hourly Emission Rate (lbs/hr):1.3

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3):97.1

MAGLC (ug/m3): 10,333

Pollutant: Isobutyl Acetate

TLV (ug/m3): 713,000

Maximum Hourly Emission Rate (lbs/hr):1.25

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3):93.5

MAGLC (ug/m3): 16,976

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

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(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.