

2 of 27 Pages

Facility Name: **Morton International Inc**

Application Number: **02-1703**

Date: **May 12, 1999**

GENERAL PERMIT CONDITIONS

TERMINATION OF PERMIT TO INSTALL

Substantial construction for installation must take place within 18 months of the effective date of this permit. 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.

NOTICE OF INSPECTION

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

CONSTRUCTION OF NEW SOURCES

The proposed source(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 source(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 Ohio Administrative Code (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.

3 of 27 Pages

Facility Name: **Morton International Inc**

Application Number: **02-1703**

Date: **May 12, 1999**

Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet applicable standards.

PERMIT TO INSTALL FEE

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 30 days of the effective date of this permit to install.

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.

APPLICABILITY

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

4 of 27 Pages

Facility Name: **Morton International Inc**

Application Number: **02-1703**

Date: **May 12, 1999**

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.

PERMIT TO OPERATE APPLICATION

A Permit to Operate application must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule 3745-35-02, the application shall be filed no later than thirty days after commencement of operation.

SOURCE OPERATION 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 and regulations.

Facility Name: **Morton International Inc**Application Number: **02-1703**Date: **May 12, 1999**AIR EMISSION SUMMARY

The air contaminant emissions units listed below comprise the Permit to Install for **Morton International Inc** located in **Wayne** County. The emissions units listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

Ohio EPA Source Number	Source Identification Description	BAT Determination	Applicable Federal & OAC Rules	Permit Allowable Mass Emissions and/or Control/Usage Requirements
P002	S5 Redhead 160 gal/hour Sand Mill	Use of mesh, partial cover, cooling jacket, baghouse; Compliance with air toxics policy	3745-31-05	OC - 2.82 pounds per day; 0.516 ton per year HAP - 1,666 pounds each HAP per month facility-wide; 4,166 pounds per month all HAPs facility-wide. PM - 0.03 grain per dscf. No visible emissions.
			3745-21-07 (G)(2)	Equivalent to or less stringent than BAT.
			3745-17-11	Equivalent to or less stringent than BAT.
			3745-17-07	Equivalent to or less stringent than BAT.
P003	S10 Redhead 160 gal/hour Sand Mill	Use of mesh, partial cover, cooling jacket, baghouse; Compliance with air toxics policy	3745-31-05	OC - 2.82 pounds per day; 0.516 ton per year HAP - 1,666 pounds each HAP per month

Facility Name: **Morton International Inc**Application Number: **02-1703**Date: **May 12, 1999**

<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
P003 Cont'd				facility-wide; 4,166 pounds per month all HAPs facility-wide. PM - 0.03 grain per dscf. No visible emissions.
			3745-21-07 (G)(2)	Equivalent to or less stringent than BAT.
			3745-17-11	Equivalent to or less stringent than BAT.
			3745-17-07	Equivalent to or less stringent than BAT.
P004	S11 Dynamill 60 gal/hour Sand Mill	Use of mesh, partial cover, cooling jacket, baghouse; Compliance with air toxics policy	3745-31-05	OC - 2.82 pounds per day; 0.516 ton per year HAP - 1,666 pounds each HAP per month facility-wide; 4,166 pounds per month all HAPs facility-wide. PM - 0.03 grain per dscf. No visible emissions.
			3745-21-07 (G)(2)	Equivalent to or less stringent than BAT.
			3745-17-11	Equivalent to or less stringent than BAT.
			3745-17-07	Equivalent to or less stringent than BAT.

Facility Name: **Morton International Inc**Application Number: **02-1703**Date: **May 12, 1999**

<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
P005	M8 US Motor 300 gallon 25 HP Mixer	Use of lid, baghouse; Compliance with air toxics policy	3745-31-05	OC - 10.0 pounds per day; 1.83 tons per year HAP - 1,666 pounds each HAP per month facility-wide; 4,166 pounds per month all HAPs facility-wide. PM - 0.03 grain per dscf. No visible emissions.
			3745-21-07 (G)(2)	Equivalent to or less stringent than BAT.
			3745-17-11	Equivalent to or less stringent than BAT.
			3745-17-07	Equivalent to or less stringent than BAT.
P006	M19 US Electric 300 gallon 15 HP Mixer	Use of lid, baghouse; Compliance with air toxics policy	3745-31-05	OC - 10.0 pounds per day; 1.83 tons per year HAP - 1,666 pounds each HAP per month facility-wide; 4,166 pounds per month all HAPs facility-wide. PM - 0.03 grain per dscf. No visible emissions.
			3745-21-07 (G)(2)	Equivalent to or less stringent than BAT.

Facility Name: **Morton International Inc**Application Number: **02-1703**Date: **May 12, 1999**

<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
P006 Cont'd			3745-17-11	Equivalent to or less stringent than BAT.
			3745-17-07	Equivalent to or less stringent than BAT.
P007	M21 Hockmeyer 300 gallon 25 HP Mixer	Use of lid, baghouse; Compliance with air toxics policy	3745-31-05	OC - 10.0 pounds per day; 1.83 tons per year HAP - 1,666 pounds each HAP per month facility-wide; 4,166 pounds per month all HAPs facility-wide. PM - 0.03 grain per dscf. No visible emissions.
			3745-21-07 (G)(2)	Equivalent to or less stringent than BAT.
			3745-17-11	Equivalent to or less stringent than BAT.
			3745-17-07	Equivalent to or less stringent than BAT.
P008	M22 Hockmeyer 300 gallon 25 HP Mixer	Use of lid, baghouse; Compliance with air toxics policy	3745-31-05	OC - 10.0 pounds per day; 1.83 tons per year HAP - 1,666 pounds each HAP per month facility-wide; 4,166 pounds per month all HAPs facility-wide.

Facility Name: **Morton International Inc**

Application Number: **02-1703**

Date: **May 12, 1999**

<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
P008 Cont'd			3745-21-07 (G)(2)	PM - 0.03 grain per dscf. No visible emissions. Equivalent to or less stringent than BAT.
			3745-17-11	Equivalent to or less stringent than BAT.
			3745-17-07	Equivalent to or less stringent than BAT.
P009	M23 Hockmeyer 300 gallon 15 HP Mixer	Use of lid, baghouse; Compliance with air toxics policy	3745-31-05	OC - 10.0 pounds per day; 1.83 tons per year HAP - 1,666 pounds each HAP per month facility-wide; 4,166 pounds per month all HAPs facility-wide. PM - 0.03 grain per dscf. No visible emissions.
			3745-21-07 (G)(2)	Equivalent to or less stringent than BAT.
			3745-17-11	Equivalent to or less stringent than BAT.
			3745-17-07	Equivalent to or less stringent than BAT.
P010	M24 Morehouse 300 gallon 15 HP Mixer	Use of lid, baghouse; Compliance with air toxics policy	3745-31-05	OC - 10.0 pounds per day; 1.83 tons per year

Facility Name: **Morton International Inc**Application Number: **02-1703**Date: **May 12, 1999**

<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
P010 Cont'd				HAP - 1,666 pounds each HAP per month facility-wide; 4,166 pounds per month all HAPs facility-wide. PM - 0.03 grain per dscf. No visible emissions.
			3745-21-07 (G)(2)	Equivalent to or less stringent than BAT.
			3745-17-11	Equivalent to or less stringent than BAT.
			3745-17-07	Equivalent to or less stringent than BAT.
P011	M25 Hockmeyer 300 gallon 15 HP Mixer	Use of lid, baghouse; Compliance with air toxics policy	3745-31-05	OC - 10.0 pounds per day; 1.83 tons per year HAP - 1,666 pounds each HAP per month facility-wide; 4,166 pounds per month all HAPs facility-wide. PM - 0.03 grain per dscf. No visible emissions.
			3745-21-07 (G)(2)	Equivalent to or less stringent than BAT.
			3745-17-11	Equivalent to or less stringent than BAT.
			3745-17-07	Equivalent to or

Facility Name: **Morton International Inc**Application Number: **02-1703**Date: **May 12, 1999**

<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
P011 Cont'd				less stringent than BAT.
P012	M26 Hockmeyer 300 gallon 15 HP Mixer	Use of lid, baghouse; Compliance with air toxics policy	3745-31-05	OC - 10.0 pounds per day; 1.83 tons per year HAP - 1,666 pounds each HAP per month facility-wide; 4,166 pounds per month all HAPs facility-wide. PM - 0.03 grain per dscf. No visible emissions.
			3745-21-07 (G)(2)	Equivalent to or less stringent than BAT.
			3745-17-11	Equivalent to or less stringent than BAT.
			3745-17-07	Equivalent to or less stringent than BAT.
P013	M27 Morehouse 300 gallon 10 HP Mixer	Use of lid, baghouse; Compliance with air toxics policy	3745-31-05	OC - 10.0 pounds per day; 1.83 tons per year HAP - 1,666 pounds each HAP per month facility-wide; 4,166 pounds per month all HAPs facility-wide. PM - 0.03 grain per dscf. No visible emissions.

Facility Name: **Morton International Inc**Application Number: **02-1703**Date: **May 12, 1999**

<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
P013 Cont'd			3745-21-07 (G)(2)	Equivalent to or less stringent than BAT.
			3745-17-11	Equivalent to or less stringent than BAT.
			3745-17-07	Equivalent to or less stringent than BAT.
P014	M28 Morehouse 300 gallon 15 HP Mixer	Use of lid, baghouse; Compliance with air toxics policy	3745-31-05	OC - 10.0 pounds per day; 1.83 tons per year HAP - 1,666 pounds each HAP per month facility-wide; 4,166 pounds per month all HAPs facility-wide. PM - 0.03 grain per dscf. No visible emissions.
			3745-21-07 (G)(2)	Equivalent to or less stringent than BAT.
			3745-17-11	Equivalent to or less stringent than BAT.
			3745-17-07	Equivalent to or less stringent than BAT.
P015	M29 Hockmeyer 300 gallon 15 HP Mixer	Use of lid, baghouse; Compliance with air toxics policy	3745-31-05	OC - 10.0 pounds per day; 1.83 tons per year HAP - 1,666 pounds each HAP per month facility-wide;

Facility Name: **Morton International Inc**Application Number: **02-1703**Date: **May 12, 1999**

<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
P015 Cont'd				4,166 pounds per month all HAPs facility-wide. PM - 0.03 grain per dscf. No visible emissions.
			3745-21-07 (G)(2)	Equivalent to or less stringent than BAT.
			3745-17-11	Equivalent to or less stringent than BAT.
			3745-17-07	Equivalent to or less stringent than BAT.
P016	M30 Hockmeyer 300 gallon 10 HP Mixer	Use of lid, baghouse; Compliance with air toxics policy	3745-31-05	OC - 10.0 pounds per day; 1.83 tons per year HAP - 1,666 pounds each HAP per month facility-wide; 4,166 pounds per month all HAPs facility-wide. PM - 0.03 grain per dscf. No visible emissions.
			3745-21-07 (G)(2)	Equivalent to or less stringent than BAT.
			3745-17-11	Equivalent to or less stringent than BAT.
			3745-17-07	Equivalent to or less stringent than BAT.

Facility Name: **Morton International Inc**Application Number: **02-1703**Date: **May 12, 1999**

<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
P017	T1012 20 HP 1000 gallon tank	Use of lid, baghouse; Compliance with air toxics policy	3745-31-05	OC - 5.75 pounds per day; 1.05 tons per year HAP - 1,666 pounds each HAP per month facility-wide; 4,166 pounds per month all HAPs facility-wide. PM - 0.03 grain per dscf. No visible emissions.
			3745-21-07 (G)(2)	Equivalent to or less stringent than BAT.
			3745-17-11	Equivalent to or less stringent than BAT.
			3745-17-07	Equivalent to or less stringent than BAT.
P018	T1013 15 HP 1000 gallon tank	Use of lid, baghouse; Compliance with air toxics policy	3745-31-05	OC - 5.75 pounds per day; 1.05 tons per year HAP - 1,666 pounds each HAP per month facility-wide; 4,166 pounds per month all HAPs facility-wide. PM - 0.03 grain per dscf. No visible emissions.
			3745-21-07 (G)(2)	Equivalent to or less stringent than BAT.

Facility Name: **Morton International Inc**Application Number: **02-1703**Date: **May 12, 1999**

<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
P018 Cont'd			3745-17-11	Equivalent to or less stringent than BAT.
			3745-17-07	Equivalent to or less stringent than BAT.
P019	T1014 30 HP 1000 gallon tank	Use of lid, baghouse; Compliance with air toxics policy	3745-31-05	OC - 5.75 pounds per day; 1.05 tons per year HAP - 1,666 pounds each HAP per month facility-wide; 4,166 pounds per month all HAPs facility-wide. PM - 0.03 grain per dscf. No visible emissions.
			3745-21-07 (G)(2)	Equivalent to or less stringent than BAT.
			3745-17-11	Equivalent to or less stringent than BAT.
			3745-17-07	Equivalent to or less stringent than BAT.
P020	T1015 30 HP 1000 gallon tank	Use of lid, baghouse; Compliance with air toxics policy	3745-31-05	OC - 5.75 pounds per day; 1.05 tons per year HAP - 1,666 pounds each HAP per month facility-wide; 4,166 pounds per month all HAPs facility-wide.

Facility Name: **Morton International Inc**Application Number: **02-1703**Date: **May 12, 1999**

<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
P020 Cont'd			3745-21-07 (G)(2)	PM - 0.03 grain per dscf. No visible emissions. Equivalent to or less stringent than BAT.
			3745-17-11	Equivalent to or less stringent than BAT.
			3745-17-07	Equivalent to or less stringent than BAT.
P021	T1016 1000 gallon tank	Use of lid, baghouse; Compliance with air toxics policy	3745-31-05	OC - 5.75 pounds per day; 1.05 tons per year HAP - 1,666 pounds each HAP per month facility-wide; 4,166 pounds per month all HAPs facility-wide. PM - 0.03 grain per dscf. No visible emissions.
			3745-21-07 (G)(2)	Equivalent to or less stringent than BAT.
			3745-17-11	Equivalent to or less stringent than BAT.
			3745-17-07	Equivalent to or less stringent than BAT.
P022	T1017 1000 gallon tank	Use of lid, baghouse; Compliance with air toxics policy	3745-31-05	OC - 5.75 pounds per day; 1.05 tons per year

Facility Name: **Morton International Inc**Application Number: **02-1703**Date: **May 12, 1999**

<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
P022 Cont'd				HAP - 1,666 pounds each HAP per month facility-wide; 4,166 pounds per month all HAPs facility-wide. PM - 0.03 grain per dscf. No visible emissions.
			3745-21-07 (G)(2)	Equivalent to or less stringent than BAT.
			3745-17-11	Equivalent to or less stringent than BAT.
			3745-17-07	Equivalent to or less stringent than BAT.
P023	T2004 150 HP 2000 gallon Hockmeyer Tank	Use of lid, baghouse; Compliance with air toxics policy	3745-31-05	OC - 5.75 pounds per day; 1.05 tons per year HAP - 1,666 pounds each HAP per month facility-wide; 4,166 pounds per month all HAPs facility-wide. PM - 0.03 grain per dscf. No visible emissions.
			3745-21-07 (G)(2)	Equivalent to or less stringent than BAT.
			3745-17-11	Equivalent to or less stringent than BAT.
			3745-17-07	Equivalent to or

Facility Name: **Morton International Inc**Application Number: **02-1703**Date: **May 12, 1999**

<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
P023 Cont'd				less stringent than BAT.
P024	T3003 60 HP 3000 gallon Hockmeyer Tank	Use of lid, baghouse; Compliance with air toxics policy	3745-31-05	OC - 5.75 pounds per day; 1.05 tons per year HAP - 1,666 pounds each HAP per month facility-wide; 4,166 pounds per month all HAPs facility-wide. PM - 0.03 grain per dscf. No visible emissions.
			3745-21-07 (G)(2)	Equivalent to or less stringent than BAT.
			3745-17-11	Equivalent to or less stringent than BAT.
			3745-17-07	Equivalent to or less stringent than BAT.
P025	T3004 75 HP 3000 gallon Pacemaker Tank	Use of lid, baghouse; Compliance with air toxics policy	3745-31-05	OC - 5.75 pounds per day; 1.05 tons per year HAP - 1,666 pounds each HAP per month facility-wide; 4,166 pounds per month all HAPs facility-wide. PM - 0.03 grain per dscf. No visible emissions.

Facility Name: **Morton International Inc**Application Number: **02-1703**Date: **May 12, 1999**

<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
P025 Cont'd			3745-21-07 (G)(2)	Equivalent to or less stringent than BAT.
			3745-17-11	Equivalent to or less stringent than BAT.
			3745-17-07	Equivalent to or less stringent than BAT.
P026	T3005 75 HP 3000 gallon US Tank	Use of lid, baghouse; Compliance with air toxics policy	3745-31-05	OC - 5.75 pounds per day; 1.05 tons per year HAP - 1,666 pounds each HAP per month facility-wide; 4,166 pounds per month all HAPs facility-wide. PM - 0.03 grain per dscf. No visible emissions.
			3745-21-07 (G)(2)	Equivalent to or less stringent than BAT.
			3745-17-11	Equivalent to or less stringent than BAT.
			3745-17-07	Equivalent to or less stringent than BAT.
P027	TW2 Hockmeyer Tubwasher	Tight-fitting cover, material pumped in and out to and from enclosed containers, use of condenser; compliance with air toxics policy.	3745-31-05	OC - 25.0 pounds per day; 4.57 tons per year HAP - 1,666 pounds each HAP per month facility-wide;

Facility Name: **Morton International Inc**

Application Number: **02-1703**

Date: **May 12, 1999**

<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
P027 Cont'd				4,166 pounds per month all HAPs facility-wide. PM - 0.03 grain per dscf. No visible emissions.
			3745-21-07 (G)(2)	Equivalent to or less stringent than BAT.
			3745-17-11	Equivalent to or less stringent than BAT.
			3745-17-07	Equivalent to or less stringent than BAT.

SUMMARY

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
OC	38.57
PM	1.43
HAPs Individual	9.99 facility-wide
HAPs in Aggregate	24.99 facility-wide

RECORD(S) RETENTION AND AVAILABILITY

All records required by this Permit to Install shall be retained on file for a period of not less than three years unless otherwise indicated by Ohio Environmental Protection Agency. All records shall be made available to the Director, or any representative of the Director, for review during normal business hours.

21 of 27 Pages

Facility Name: **Morton International Inc**

Application Number: **02-1703**

Date: **May 12, 1999**

WASTE DISPOSAL

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport and disposal of any waste material generated by the operation of the sources.

MAINTENANCE OF EQUIPMENT

This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

MALFUNCTION/ABATEMENT

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the **Ohio EPA, Northeast District Office, 2110 E. Aurora Road, Twinsburg, OH 44087.**

Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution sources.

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.

ADDITIONAL SPECIAL TERMS AND CONDITIONS

A. Introduction

Morton Coatings Division of Morton International has a plant located on Collins Boulevard in Orrville, Wayne County, Ohio. The plant manufactures water-based, high solids, and solvent-based coatings. The facility has obtained new equipment due to corporate restructuring and has increased production accordingly. This permit is for the newly installed

equipment, includes an emissions unit inadvertently omitted from permitting in the past, and some equipment to be installed in the near future.

B. Emission Limitations

The facility currently is permitted to emit 32 tons of organic compounds per year from 46 mixers and tanks, 7 sand mills, and 4 vortisieves in Permit to Install No. 02-8870. PTI No. 02-8870 inadvertently omitted one tank, which has been included in the current permit. This permit includes 3 sand mills, 12 mixers, 10 tanks (including the omitted tank mentioned above), and 1 tubwasher, and will increase potential organic compound emissions 11 tons per year. HAPs will be restricted to less than 10 tons per individual HAP and less than 25 tons of all the HAPs per year for the facility. The HAP of concern is xylene.

Actual VOC emissions will be determined by means of an annual facility material balance. The facility wide emissions will be apportioned to the individual pieces of equipment based on equations and information in USEPA's "Control of Volatile Organic Compound Emissions from Batch Processes-Alternative Control Techniques Information Document" and experience.

C. Operational Restrictions

This permit does not limit hours of operation or material throughput. The potential emission were calculated based on the current mix of water-based, high solids, and solvent-based materials; however, the trend continues to be increasing production of high solids and water-based materials and decreasing demand for solvent-based coatings.

D. Recordkeeping Requirements

1. The permittee shall perform an annual material balance, and shall collect and record the following information:
 - a. pounds material produced;
 - b. pounds customer returns only reported as a gain;
 - c. pounds Nippon repackaging reported as a gain;
 - d. actual pounds produced (i.e., a - b - c);
 - e. pounds lost per reporting;
 - f. gains of customer returns;

- g. gains of Nippon paint;
 - h. pounds net production loss (i.e., $e + f + g$);
 - i. pounds hazardous waste sent offsite;
 - j. pounds reclaim solvent purchased;
 - k. pounds other cleaning solvents;
 - l. total pounds of paint lost (i.e., $h - i + j + k$);
 - m. pound OC per pound paint;
 - n. total pounds of OC lost (i.e., $l \times m$); and
 - o. percent lost (i.e., $l \div d \times 100$).
2. The permittee shall record the days of operation for the sandmills, mixers, tanks, and the Hockmeyer tubwasher on a monthly basis.
3. The permittee shall collect and record the following information each month to determine HAP emissions:
- a. the name and identification number of each material, as applied;
 - b. the individual Hazardous Air Pollutant (HAP)¹ content for each HAP of each material in pounds of individual HAP per gallon of material, as applied;
 - c. the total combined Hazardous Air Pollutant (HAP) content for each HAP of each material in pounds of combined HAPs per gallon of material, as applied (sum all the individual HAP contents from b);
 - d. the number of gallons of each material employed;
 - e. the name and identification of each cleanup material employed;
 - f. the individual HAP content for each HAP of each cleanup material in pounds of individual HAP per gallon of cleanup material, as applied;
 - g. the total combined HAP content of each cleanup material in pounds of combined HAPs per gallon of cleanup material, as applied (sum all the individual HAP contents from f);

- h. the number of gallons of each cleanup material employed;
- i. the total individual HAP emissions from each HAP from all materials employed, in pounds or tons per month and pounds or tons per rolling 12 month period (for each HAP the sum of (b) times (d) for each material and the sum of (f) times (h) for each cleanup material); and,
- j. the total combined Hazardous Air Pollutant (HAP) emissions from all materials employed, in pounds or tons per month and pound or tons per rolling 12 month period (the sum of (c) times (d) for each material plus the sum of (g) times (h) for each cleanup material).

¹A listing of the Hazardous Air Pollutants (HAPs) can be found in Section 112(b) of the Clean Air Act or can be obtained by contacting the Ohio EPA Northeast District Office contact. Material Safety Data Sheets typically include a listing of the solvents contained in the coatings or cleanup materials. This information does not have to be kept on a line-by-line basis.

E. Reporting Requirements

- 1. a. The permittee shall notify the Director (the Ohio EPA Northeast District Office) in writing of any record showing that the OC emissions from the S5, S10 and/or S11 Sandmills exceed 2.82 pounds per day. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office) within 45 days after the exceedance occurs.
- b. The permittee shall notify the Director (the Ohio EPA Northeast District Office) in writing of any record showing that the OC emissions from the M8, M19, M21, M22, M23, M24, M25, M26, M27, M28, and/or M29 Mixers exceed 10.0 pounds per day. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office) within 45 days after the exceedance occurs.
- c. The permittee shall notify the Director (the Ohio EPA Northeast District Office) in writing of any record showing that the OC emissions from the T1012, T1013, T1014, T1015, T1016, T1017, T2004, T3003, T3004 and/or T3005 Tanks exceed 5.75 pounds per day. The notification

shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office) within 45 days after the exceedance occurs.

- d. The permittee shall notify the Director (the Ohio EPA Northeast District Office) in writing of any record showing that the OC emissions from the TW2 Tubwasher exceed 25 pounds per day. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office) within 45 days after the exceedance occurs.
2. The permittee shall notify the Director of any monthly record showing any deviation from the following:
 - a. the total individual HAP emissions limitation for each HAP from all materials employed, in pounds per month; and,
 - b. the total combined HAP emissions from all materials employed, in pounds per month.

These reports shall include a description of the deviation, as well as the corrective actions that were taken to achieve compliance. The permittee shall submit annual reports which identify all the exceedances of the above limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.

F. Testing Requirements

Compliance with the emission limitation(s) in the Air Emissions Summary shall be determined in accordance with the following method(s):

1. Emission Limitation

2.82 pounds OC per day from the S5, S10, and S11 Sandmills

Applicable Compliance Method

The total pounds of OC lost (D.(1)(n) above) shall be multiplied by 0.00001748 to determine the pounds OC emitted per day. 0.00001748 is a specific emission factor determined by dividing the percentage of losses attributed to sandmills by 260 days of operation, divided by the number of sandmills in operation.

Facility Name: **Morton International Inc**

Application Number: **02-1703**

Date: **May 12, 1999**

Emission Limitation

10.0 pounds of OC per day from the M8, M19, M21, M22, M23, M24, M25, M26, M27, M28, M29, and M30 Mixers

Applicable Compliance Method

The total pounds of OC lost (D.(1)(1) above) shall be multiplied by 0.00005897 to determine the pounds OC emitted per day. 0.00005897 is a specific emission factor determined by dividing the percentage of losses attributed to mixers by 260 days of operation, divided by the number of mixers in operation.

Emission Limitation

5.75 pounds of OC per day from the T1012, T1013, T1014, T1015, T1016, T1017, T2004, T3003, T3004 and T3005 Tanks

Applicable Compliance Method

The total pounds of OC lost (D.(1)(n) above) shall be multiplied by 0.00003269 to determine the pounds OC emitted per day. 0.00003269 is a specific emission factor determined by dividing the percentage of losses attributed to tanks by 260 days of operation, divided by the number of tanks in operation.

Emission Limitation

25 pounds of OC per day from the TW2 Tubwasher

Applicable Compliance Method

The total pounds of OC lost (D.(1)(n) above) shall be multiplied by 0.005769 to determine the pounds OC emitted per day. 0.005769 is a specific emission factor determined by dividing the percentage of losses attributed to tubwasher by 260 days of operation.

2. Emission Limitation

0.03 grain per dry standard cubic foot of exhaust for each baghouse

Applicable Compliance Method

OAC Rule 3745-17-03(B)(10), if requested by Northeast District Office.

Facility Name: **Morton International Inc**

Application Number: **02-1703**

Date: **May 12, 1999**

3. Emission Limitation

1,666 pounds per month of any one hazardous air pollutant facility-wide

Applicable Compliance Method

Formulation data or USEPA Method 24 shall be used to determine the contents of materials purchased. The % Lost (D.(1)(o) above) shall be multiplied by the percentage of each HAP present in materials used (as determined in D.(2)(c)).

4. Emission Limitation

4,166 pounds per month all hazardous air pollutants facility-wide

Applicable Compliance Method

The percent Lost (D.(1)(o) above) shall be multiplied by the percentage of all HAPs present in materials used (as determined in D.(2)(c)).

G. Miscellaneous Requirements

1. None.