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Facility Name: **MORTON INTERNATIONAL, INC**

Application Number: **02-2205**

Date: **June 24, 1998**

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 SOURCE(S)

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 Ohio 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

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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. 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.

PERMIT TO INSTALL FEE

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 15 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.

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.

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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 made at least 90 days prior to start-up of the source.

NINETY DAY OPERATING PERIOD

The facility will be permitted to operate during a 90-day period in accordance with OAC Rule 3745-35-02(C)(4)(b). The purpose of this period of operation is to fulfill the performance tests conditions used in the determination of compliance with the provisions of this Permit to Install or other applicable Ohio EPA rules.

SOURCE OPERATION AFTER COMPLETION OF CONSTRUCTION

This facility is permitted to operate each source described by this permit to install for 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.

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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.

<u>Ohio EPA Source Number</u>	<u>Source Identification Description</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
P009	Third Floor Mill Screening	Compliance with Applicable Rules;	3745-31-05	Equivalent to or less stringent than Subpart 000.
		Compliance with Air Toxics Policy	40 CFR 60.670 (Subpart 000)	0.05 gram per dsc meter. Which is the same as 0.021 grain per dscf. Based upon exhaust rate of 10,900 dscfm for the Carter Day, this is 2.0 lbs/hour. Based upon exhaust rate of 6,900 dscm for the Sly, this is 1.3 lbs/hour. Total of 3.3 lbs/hr.
				Opacity not greater than 7%

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<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>
			3745-17-11	Equivalent to or less stringent than Subpart 000.
			3745-17-07	Equivalent to or less stringent than Subpart 000.

SUMMARY

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
PM	14.5*

* This is no change in the net allowable emissions for this emissions unit.

NSPS REQUIREMENTS

The following sources are subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
P009	Third Floor Mill Screening	000

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The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and
- d. date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
P.O. Box 163669
Columbus, OH 43216-3669

and **Ohio EPA, Northeast District Office**
2110 E. Aurora Road
Twinsburg, OH 44087.

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.

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.

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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.

AIR POLLUTION NUISANCES PROHIBITED

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

ADDITIONAL SPECIAL TERMS AND CONDITIONS

A. Introduction

Morton Salt Division of Morton International solution mines salt in Rittman, Wayne County. The plant cleans and dries the salt before processing it in many different ways. The facility has applied for a Permit to Install to modify emissions unit P009, the Third Floor Mill Screening with the addition of a new bucket elevator to allow for greater operational feasibility in where and how the salt is moved in the plant. Potential particulate emissions from this emissions unit are controlled with two, parallel baghouses.

B. Emission Limitations

This modification is subject to the restrictions in the New Source Performance Standards, Subpart 000. These standards are located in 40 CFR 60.762. Paragraph (a)(1) specifies 0.05 gram per dry standard cubic meter of exhaust, which is the same as 0.0218 grain per dry standard cubic foot of exhaust. This will affect the allowable emission rate from both of the parallel baghouses. Based on the proposed exhaust flow rate of 10,900 dscf from the Carter Day, the allowable emissions are 2.0 pounds

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particulate matter per hour from filter 9a. Based on the proposed exhaust flow rate of 6900 dscf from the Sly, the allowable emissions are 1.3 pounds particulate matter per hour from filter 9b. Total emissions are 3.3 pounds per hour. Paragraph (a)(2) specifies emissions must not be greater than 7 percent opacity from the stack. Paragraph (b) specifies fugitive emissions must not be greater than 10 percent opacity.

C. Operational Restrictions

The pressure drop across the fabric filters shall be maintained within the range of inches of water to be determined during the initial compliance testing while the emissions unit is in operation.

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D. Record keeping Requirements

1. This source shall install, calibrate, maintain and operate equipment to monitor the pressure drop across the fabric filters while the emissions unit is in operation. The monitoring device must be certified by the manufacturer to be accurate within +250 pascals +1 inch water gauge pressure and must be calibrated on an annual basis in accordance with manufacturer's instructions.
2. The permittee shall perform monthly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;

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- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to eliminate the visible emissions.

E. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These

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reports shall be submitted to the Director (the Ohio EPA Northeast District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

F. Testing Requirements

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

Emission Limitation:

0.05 gram per dry standard cubic meter of exhaust

Applicable Compliance Method:

OAC rule 3745-17-03(B)(10)

Emission Limitation:

Opacity not greater than 7%

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

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2. Within 60 days after achieving the maximum production rate at which this source shall be operated, but not later than 180 days after initial startup of the source, this facility shall conduct, or have conducted, and emission test(s) for this source in order to demonstrate compliance with the allowable mass emission rate for particulates. The emission test(s) shall be conducted in accordance with the test methods and procedures specified in OAC rule 3745-17-03. The tests shall be conducted under maximum production rates unless otherwise specified or approved. Method 5 or Method 17 or another method as specified by Subpart 000 shall be used to determine the particulate matter concentration.

Not later than 30 days prior to the proposed test date(s), this facility shall submit an "Intent to Test" notification to the Ohio EPA, Northeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the source operating parameters, the time(s) and date(s) of the test(s). Failure

to submit such notification for review and approval prior to the test(s) may result in the field office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northeast District Office shall be permitted to witness the test(s), examine the testing equipment and acquire data and information regarding the source operating parameters.

A comprehensive written report on the results of the emission test(s) shall be submitted to the Ohio EPA Northeast District Office within 30 days following completion of the test(s).

G. Miscellaneous Requirements

The terms and conditions in this permit shall supersede all the air pollution control requirements for this emissions unit contained in permit to install 02-4073, as issued on October 18, 1988.