

**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 9-5632-00007/00039    Renewal Number: 1**



**02/21/2007**

**Facility Identification Data**

Name: MORTON SALT DIV  
Address: 45 RIBAUD AVE EAST  
SILVER SPRINGS, NY 14550

**Owner/Firm**

Name: MORTON INTERNATIONAL INC  
Address: 123 NORTH WACKER DRIVE  
CHICAGO, IL 60606-1743, USA  
Owner Classification: Corporation/Partnership

**Permit Contacts**

Division of Environmental Permits:  
Name: PENNY R DEMPSEY  
Address: 270 MICHIGAN AVE  
BUFFALO, NY 14203-2999

Division of Air Resources:  
Name: CONNIE LAPORT  
Address: 270 MICHIGAN AVENUE  
BUFFALO, NY 14203-2999  
Phone:7168517130

Air Permitting Facility Owner Contact:  
Name: JAY G TANGEMAN  
Address: MORTON SALT  
PO BOX 342  
SILVER SPRINGS, NY 14550-0342  
Phone:5184932511

**Permit Description**

**Introduction**

The Title V operating air permit is intended to be a document containing only enforceable terms and conditions as well as any additional information, such as the identification of emission units, emission points, emission sources and processes, that makes the terms meaningful. 40 CFR Part 70.7(a)(5) requires that each Title V permit have an accompanying "...statement that sets forth the legal and factual basis for the draft permit conditions". The purpose for this permit review report is to satisfy the above requirement by providing pertinent details regarding the permit/application data and permit conditions in a more easily understandable format. This report will also include background narrative and explanations of regulatory decisions made by the reviewer. It should be emphasized that this permit review report, while based on information contained in the permit, is a separate document and is not itself an enforceable term and condition of the permit.

**Summary Description of Proposed Project**

Application for renewal of Air Title V Facility.

# New York State Department of Environmental Conservation

## Permit Review Report

Permit ID: 9-5632-00007/00039    Renewal Number: 1

02/21/2007



### Attainment Status

MORTON SALT DIV is located in the town of GAINESVILLE in the county of WYOMING. The attainment status for this location is provided below. (Areas classified as attainment are those that meet all ambient air quality standards for a designated criteria air pollutant.)

Criteria Pollutant	Attainment Status
Particulate Matter (PM)	ATTAINMENT
Particulate Matter < 10µ in diameter (PM10)	ATTAINMENT
Sulfur Dioxide (SO2)	ATTAINMENT
Ozone* ATTAINMENT)	TRANSPORT REGION (NON-ATTAINMENT)
Oxides of Nitrogen (NOx)**	ATTAINMENT
Carbon Monoxide (CO)	ATTAINMENT

\* Ozone is regulated in terms of the emissions of volatile organic compounds (VOC) and/or oxides of nitrogen (NOx) which are ozone precursors.

\*\* NOx has a separate ambient air quality standard in addition to being an ozone precursor

### Facility Description

The facility produces, packages, and ships evaporated sodium chloride (NaCl) salt products. The salt brine is obtained by hydraulic mining. The brine is evaporated to produce a slurry which is dewatered and dried. Evaporation is accomplished using steam which is mostly produced by a coal fired boiler and a natural gas fired boiler. The facility also receives a small portion of steam from an adjacent cogeneration plant (gas turbine). The granular salt is screened and may receive additives. Some salt is compacted for agricultural or water conditioning. Salt is packaged for consumer's use and is packaged or bulk loaded for industrial use, mainly in the food processing and chemical processing industries.

### Permit Structure and Description of Operations

The Title V permit for MORTON SALT DIV is structured in terms of the following hierarchy: facility, emission unit, emission point, emission source and process.

A facility is defined as all emission sources located at one or more adjacent or contiguous properties owned or operated by the same person or persons under common control. The facility is subdivided into one or more emission units (EU). Emission units are defined as any part or activity of a stationary facility that emits or has the potential to emit any federal or state regulated air pollutant. An emission unit is represented as a grouping of processes (defined as any activity involving one or



**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 9-5632-00007/00039    Renewal Number: 1**

**02/21/2007**

more emission sources (ES) that emits or has the potential to emit any federal or state regulated air pollutant). An emission source is defined as any apparatus, contrivance or machine capable of causing emissions of any air contaminant to the outdoor atmosphere, including any appurtenant exhaust system or air cleaning device.

[NOTE: Indirect sources of air contamination as defined in 6 NYCRR Part 203 (i.e. parking lots) are excluded from this definition]. The applicant is required to identify the principal piece of equipment (i.e., emission source) that directly results in or controls the emission of federal or state regulated air pollutants from an activity (i.e., process). Emission sources are categorized by the following types:

- combustion        -        devices which burn fuel to generate heat, steam or power
- incinerator       -        devices which burn waste material for disposal
- control            -        emission control devices
- process            -        any device or contrivance which may emit air contaminants that is not included in the above categories.

MORTON SALT DIV is defined by the following emission unit(s):

Emission unit MBC001 - Emission Unit M-BC001 includes a pulverized coal dry bottom boiler producing steam for brine evaporation, salt drying, and building heat. The boiler has an electrostatic precipitator to control particulate emissions. The emission point is a brick chimney. There is also a flyash accumulation silo.

Emission unit MBC001 is associated with the following emission points (EP):  
00001, 00030, 00031

It is further defined by the following process(es):

Process: 001 is located at Building 1 - Process 001 includes the burning of bituminous coal in a dry bottom boiler to generate steam. The process includes coal pulverizers.

Process: 002 is located at 1, Building 1 - Process 002 includes the natural gas ignitors on the coal boiler. The gas ignitors are fired to start the boiler during start-up, during ash removal and to support low or changing combustion conditions. They have an annual actual natural gas usage of approximately 15,000 cu. ft. per year.

Process: 004 is located at Building 1 - Process 004 includes the pneumatic conveyance of flyash from the coal fired boiler and electrostatic precipitator to a storage silo through two cyclones in series and then through a Mikropul baghouse. The baghouse exhausts to the boiler stack (EP00001). The storage silo has a filtered vent.

Emission unit MBG002 - Emission Unit M-BG002 includes a natural gas fired boiler that produces steam for building heat and steam for salt production and drying. As per 6NYCRR Part 227-2, the 92.5 mm Btu/hr boiler is classified as a mid-size boiler. The facility intends to comply with the NOx RACT emission limit of 0.10 pounds NOx per million Btu.

Emission unit MBG002 is associated with the following emission points (EP):  
00027

It is further defined by the following process(es):

Process: 005 is located at Building 1 - Process 005 includes the burning of natural gas in the Cleaver Brooks DL-945 boiler to generate steam.

Emission unit MBR004 - Emission Unit M-BR004 includes bulk loading of salt (NaCl) into rail cars.

**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 9-5632-00007/00039    Renewal Number: 1**



**02/21/2007**

Emission unit MBR004 is associated with the following emission points (EP):  
00025

It is further defined by the following process(es):

Process: 007 is located at TRAIN SHED, Building 12 - Process 007 includes the collection of salt (NaCl) dust from bulk railcar loading. The salt is removed from the air stream by a wet venturi scrubber. The effluent is recycled in the process system. Clean air is exhausted to the atmosphere.

Emission unit MML005 - Emission unit M-ML005 includes the bulk storage, screening, grinding, blocking, packaging, and bulk truck loading of salt (NaCl) products.

Emission unit MML005 is associated with the following emission points (EP):  
00002, 00006, 00008, 00009

It is further defined by the following process(es):

Process: 008 is located at Building 36 - Process 008 is the collection of salt (NaCl) dust from the salt handling equipment including screw conveyors, belt conveyors, bucket elevators, screeners, grinders, block press, and packaging equipment. The salt is removed from the air stream in a dry bag house. The salt is collected, dissolved, and returned to the manufacturing process. The clean air is exhausted to the atmosphere.

Emission unit MPH006 - Emission Unit M-PH006 includes wet dust collectors used in capturing salt (NaCl) dust from screw conveyors, belt conveyors, bucket elevators, screeners, silos, and rotary conditioner.

Emission unit MPH006 is associated with the following emission points (EP):  
00003, 00005, 00010, 00014

It is further defined by the following process(es):

Process: 010 is located at TOP OF SILO/HALF FLO, Building 32 - Process 010 is the collection of salt (NaCl) dust from screw conveyors, scalping screens, belt conveyors, bucket elevators, storage silos, and rotary conditioner (unfired rotary kiln, ambient air). The effluent is recycled in the process system. The clean air is exhausted to the atmosphere.

Emission unit MPT003 - Emission Unit M-PT003 includes the production and packaging of briquetted salt (NaCl) as a water conditioning recharge product. The system includes briquetting presses, screw conveyors, bucket elevators, screeners, packaging equipment, and dust collector.

Emission unit MPT003 is associated with the following emission points (EP):  
00026

It is further defined by the following process(es):

Process: 006 is located at 3RD FLOOR, Building 33 - Process 006 is the collection of salt (NaCl) dust collected from pellet production equipment including: briquetters, screw conveyors, screeners, bucket elevators, bins, and packaging equipment. The salt is removed from the air stream by a wet venturi scrubber. The effluent is recycled in the process system. Clean air is exhausted to the atmosphere.

**Title V/Major Source Status**

MORTON SALT DIV is subject to Title V requirements. This determination is based on the following information:

The air pollution sources at Morton Salt emit air pollutants consisting mainly of particulate matter and

**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 9-5632-00007/00039    Renewal Number: 1**

**02/21/2007**



combustion by-products. Morton Salt is a major source of nitrogen oxides (Nox) and sulfur dioxide (SO<sub>2</sub>) emissions. The facility is a potential major source of particulate emissions prior to air pollution control equipment and is a synthetic minor source of HAP emissions.

**Program Applicability**

The following chart summarizes the applicability of MORTON SALT DIV with regards to the principal air pollution regulatory programs:

<b>Regulatory Program</b>	<b>Applicability</b>
PSD	NO
NSR (non-attainment)	NO
NESHAP (40 CFR Part 61)	NO
NESHAP (MACT - 40 CFR Part 63)	NO
NSPS	NO
TITLE IV	NO
TITLE V	YES
TITLE VI	NO
RACT	YES
SIP	YES

**NOTES:**

**PSD**            Prevention of Significant Deterioration (40 CFR 52) - requirements which pertain to major stationary sources located in areas which are in attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

**NSR**            New Source Review (6 NYCRR Part 231) - requirements which pertain to major stationary sources located in areas which are in non-attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

**NESHAP**        National Emission Standards for Hazardous Air Pollutants (40 CFR 61) - contaminant and source specific emission standards established prior to the Clean Air Act Amendments of 1990 (CAAA) which were developed for 9 air contaminants (inorganic arsenic, radon, benzene, vinyl chloride, asbestos, mercury, beryllium, radionuclides, and volatile HAP's)

## New York State Department of Environmental Conservation

### Permit Review Report

Permit ID: 9-5632-00007/00039 Renewal Number: 1

02/21/2007



**MACT** Maximum Achievable Control Technology (40 CFR 63) - contaminant and source specific emission standards established by the 1990 CAAA. Under Section 112 of the CAAA, the US EPA is required to develop and promulgate emissions standards for new and existing sources. The standards are to be based on the best demonstrated control technology and practices in the regulated industry, otherwise known as MACT. The corresponding regulations apply to specific source types and contaminants.

**NSPS** New Source Performance Standards (40 CFR 60) - standards of performance for specific stationary source categories developed by the US EPA under Section 111 of the CAAA. The standards apply only to those stationary sources which have been constructed or modified after the regulations have been proposed by publication in the Federal Register and only to the specific contaminant(s) listed in the regulation.

**Title IV** Acid Rain Control Program (40 CFR 72 thru 78) - regulations which mandate the implementation of the acid rain control program for large stationary combustion facilities.

**Title VI** Stratospheric Ozone Protection (40 CFR 82, Subparts A thru G) - federal requirements that apply to sources which use a minimum quantity of CFC's (chlorofluorocarbons), HCFC's (hydrofluorocarbons) or other ozone depleting substances or regulated substitute substances in equipment such as air conditioners, refrigeration equipment or motor vehicle air conditioners or appliances.

**RACT** Reasonably Available Control Technology (6 NYCRR Parts 212.10, 226, 227-2, 228, 229, 230, 232, 233, 234, 235, 236) - the lowest emission limit that a specific source is capable of meeting by application of control technology that is reasonably available, considering technological and economic feasibility. RACT is a control strategy used to limit emissions of VOC's and NOx for the purpose of attaining the air quality standard for ozone. The term as it is used in the above table refers to those state air pollution control regulations which specifically regulate VOC and NOx emissions.

**SIP** State Implementation Plan (40 CFR 52, Subpart HH) - as per the CAAA, all states are empowered and required to devise the specific combination of controls that, when implemented, will bring about attainment of ambient air quality standards established by the federal government and the individual state. This specific combination of measures is referred to as the SIP. The term here refers to those state regulations that are approved to be included in the SIP and thus are considered federally enforceable.

### Compliance Status

Facility is in compliance with all requirements

### SIC Codes

SIC or Standard Industrial Classification code is an industrial code developed by the federal Office of Management and Budget for use, among other things, in the classification of establishments by the type of activity in which they are engaged. Each operating

# New York State Department of Environmental Conservation

## Permit Review Report

Permit ID: 9-5632-00007/00039    Renewal Number: 1



02/21/2007

establishment is assigned an industry code on the basis of its primary activity, which is determined by its principal product or group of products produced or distributed, or services rendered. Larger facilities typically have more than one SIC code.

SIC Code	Description
2899	CHEMICAL PREPARATIONS, NEC

### SCC Codes

SCC or Source Classification Code is a code developed and used by the USEPA to categorize processes which result in air emissions for the purpose of assessing emission factor information. Each SCC represents a unique process or function within a source category logically associated with a point of air pollution emissions. Any operation that causes air pollution can be represented by one or more SCC's.

SCC Code	Description
1-01-002-02	EXTERNAL COMBUSTION BOILERS - ELECTRIC GENERATION ELECTRIC UTILITY BOILER - BITUMINOUS COAL PULVERIZED COAL: DRY BOTTOM (BITUMINOUS COAL)
1-02-006-02	EXTERNAL COMBUSTION BOILERS - INDUSTRIAL INDUSTRIAL BOILER - NATURAL GAS 10-100 MMBtu/Hr
1-02-006-01	EXTERNAL COMBUSTION BOILERS - INDUSTRIAL INDUSTRIAL BOILER - NATURAL GAS Over 100 MBtu/Hr
1-02-002-02	EXTERNAL COMBUSTION BOILERS - INDUSTRIAL INDUSTRIAL BOILER - SUBBITUMINOUS COAL Pulverized Coal: Dry Bottom
3-05-021-03	MINERAL PRODUCTS MINERAL PRODUCTS - SALT MINING Filtration: Vacuum Filter
3-05-021-01	MINERAL PRODUCTS
MINERAL PRODUCTS - SALT MINING General	

### Facility Emissions Summary

In the following table, the CAS No. or Chemical Abstract Series code is an identifier assigned to every chemical compound. [NOTE: Certain CAS No.'s contain a 'NY' designation within them. These are not true CAS No.'s but rather an identification which has been developed by the department to identify groups of contaminants which ordinary CAS No.'s do not do. As an example, volatile organic compounds or VOC's are identified collectively by the NY CAS No. 0NY998-00-0.] The PTE refers to the Potential to Emit. This is defined as the maximum capacity of a facility or air contaminant source to emit any air contaminant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or air contamination source to emit any air contaminant, including air pollution control equipment and/or restrictions on the hours of operation, or on the type or amount or material combusted, stored, or processed, shall be treated as part of the design only if the limitation is contained in federally enforceable permit conditions. The PTE Range represents an emission range for a contaminant. Any PTE quantity that is displayed represents a facility-wide emission cap or limitation for that contaminant. If no PTE quantity is displayed, the PTE Range is provided to indicate the approximate

**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 9-5632-00007/00039    Renewal Number: 1**

**02/21/2007**



magnitude of facility-wide emissions for the specified contaminant in terms of tons per year (tpy). The term 'HAP' refers to any of the hazardous air pollutants listed in section 112(b) of the Clean Air Act Amendments of 1990. Total emissions of all hazardous air pollutants are listed under the special NY CAS No. 0NY100-00-0. In addition, each individual hazardous air pollutant is also listed under its own specific CAS No. and is identified in the list below by the (HAP) designation.

Cas No.	Contaminant Name	PTE	
		lbs/yr	Range
068131-74-8	ASHES (RESIDUES)		> 0 but < 2.5 tpy
008052-42-4	ASPHALT		>= 25 tpy but < 40 tpy
000630-08-0	CARBON MONOXIDE		>= 10 tpy but < 25 tpy
0NY100-00-0	HAP		>= 10 tpy but < 25 tpy
007647-01-0	HYDROGEN CHLORIDE (HAP)	19000	
0NY210-00-0	OXIDES OF NITROGEN		>= 250 tpy
0NY075-00-0	PARTICULATES		>= 100 tpy but < 250 tpy
0NY075-00-5	PM-10		>= 25 tpy but < 40 tpy
007647-14-5	SODIUM CHLORIDE CLNA		>= 25 tpy but < 40 tpy
007446-09-5	SULFUR DIOXIDE		>= 250 tpy
0NY998-00-0	VOC		>= 25 tpy but < 40 tpy

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

**Item A:            Emergency Defense - 6NYCRR Part 201-1.5**

An emergency constitutes an affirmative defense to an action brought for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

(a) The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

- (1) An emergency occurred and that the facility owner and/or operator can identify the cause(s) of the emergency;
- (2) The equipment at the permitted facility causing the emergency was at the time being properly operated;
- (3) During the period of the emergency the facility owner and/or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
- (4) The facility owner and/or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

(b) In any enforcement proceeding, the facility owner and/or operator seeking to establish the occurrence of an emergency has the burden of proof.

**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 9-5632-00007/00039    Renewal Number: 1**



**02/21/2007**

(c) This provision is in addition to any emergency or upset provision contained in any applicable requirement.

**Item B:            Public Access to Recordkeeping for Title V Facilities - 6NYCRR Part 201-1.10(b)**

The Department will make available to the public any permit application, compliance plan, permit, and monitoring and compliance certification report pursuant to Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to 6NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.

**Item C:            Timely Application for the Renewal of Title V Permits - 6 NYCRR Part 201-6.3(a)(4)**

Owners and/or operators of facilities having an issued Title V permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.

**Item D:            Certification by a Responsible Official - 6 NYCRR Part 201-6.3(d)(12)**

Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official. This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

**Item E:            Requirement to Comply With All Conditions - 6 NYCRR Part 201-6.5(a)(2)**

The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

**Item F:            Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR Part 201-6.5(a)(3)**

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 9-5632-00007/00039    Renewal Number: 1**



**02/21/2007**

**Item G:                    Cessation or Reduction of Permitted Activity Not a Defense - 6NYCRR Part 201-6.5(a)(5)**

It shall not be a defense for a permittee in an enforcement action to claim that a cessation or reduction in the permitted activity would have been necessary in order to maintain compliance with the conditions of this permit.

**Item H:                    Property Rights - 6 NYCRR Part 201-6.5(a)(6)**

This permit does not convey any property rights of any sort or any exclusive privilege.

**Item I:                    Severability - 6 NYCRR Part 201-6.5(a)(9)**

If any provisions, parts or conditions of this permit are found to be invalid or are the subject of a challenge, the remainder of this permit shall continue to be valid.

**Item J:                    Permit Shield - 6 NYCRR Part 201-6.5(g)**

All permittees granted a Title V facility permit shall be covered under the protection of a permit shield, except as provided under 6 NYCRR Subpart 201-6. Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and are specifically identified in the permit, or the Department, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the major stationary source, and the permit includes the determination or a concise summary thereof. Nothing herein shall preclude the Department from revising or revoking the permit pursuant to 6 NYCRR Part 621 or from exercising its summary abatement authority. Nothing in this permit shall alter or affect the following:

- i.            The ability of the Department to seek to bring suit on behalf of the State of New York, or the Administrator to seek to bring suit on behalf of the United States, to immediately restrain any person causing or contributing to pollution presenting an imminent and substantial endangerment to public health, welfare or the environment to stop the emission of air pollutants causing or contributing to such pollution;
- ii.          The liability of a permittee of the Title V facility for any violation of applicable requirements prior to or at the time of permit issuance;

**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 9-5632-00007/00039    Renewal Number: 1**



**02/21/2007**

- iii. The applicable requirements of Title IV of the Act;
- iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

**Item K: Reopening for Cause - 6 NYCRR Part 201-6.5(i)**

This Title V permit shall be reopened and revised under any of the following circumstances:

- i. If additional applicable requirements under the Act become applicable where this permit's remaining term is three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 201-6.7 and Part 621.
- ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.
- iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

Proceedings to reopen and issue Title V facility permits shall follow the same procedures as apply to initial permit issuance but shall affect only those parts of the permit for which cause to reopen exists.

Reopenings shall not be initiated before a notice of such intent is provided to the facility by the Department at least thirty days in advance of the date that the permit is to be reopened, except that the Department may provide a shorter time period in the case of an emergency.

**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 9-5632-00007/00039    Renewal Number: 1**



**02/21/2007**

**Item L:                    Permit Exclusion - ECL 19-0305**

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

**Item M:                    Federally Enforceable Requirements - 40 CFR 70.6(b)**

All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

**Item A:                    General Provisions for State Enforceable Permit Terms and Condition - 6 NYCRR Part 201-5**

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 9-5632-00007/00039 Renewal Number: 1



02/21/2007

federal air pollution control requirements, regulations or law.

Regulatory Analysis

Location Facility/EU/EP/Process/ES	Regulation	Short Description	Condition
FACILITY	ECL 19-0301	Powers and Duties of the Department with respect to air pollution control	46
FACILITY	40CFR 63-DDDDD	Boilers and Process Heaters NESHAP rule	26, 27, 28, 29, 30
FACILITY	40CFR 64	COMPLIANCE ASSURANCE MONITORING	33
M-BC001	40CFR 64	COMPLIANCE ASSURANCE MONITORING	38
FACILITY	40CFR 68	Chemical accident prevention provisions	20
FACILITY	40CFR 82-F	Protection of Stratospheric Ozone - recycling and emissions reduction	21
FACILITY	6NYCRR 200.6	Acceptable ambient air quality.	1
FACILITY	6NYCRR 200.7	Maintenance of equipment.	10
FACILITY	6NYCRR 201-1.4	Unavoidable noncompliance and violations	47
FACILITY	6NYCRR 201-1.7	Recycling and Salvage	11
FACILITY	6NYCRR 201-1.8	Prohibition of reintroduction of collected contaminants to the air	22
FACILITY	6NYCRR 201-3.2(a)	Exempt Activities - Proof of eligibility	12
FACILITY	6NYCRR 201-3.3(a)	Trivial Activities - proof of eligibility	13
FACILITY	6NYCRR 201-6	Title V Permits and the Associated Permit Conditions	23, 34, 35
FACILITY	6NYCRR 201-6.5(a)(4)	General conditions	14
FACILITY	6NYCRR 201-6.5(a)(7)	General conditions	14
Fees 2	6NYCRR 201-6.5(a)(8)	General conditions	15
FACILITY	6NYCRR 201-6.5(c)	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring	3
FACILITY	6NYCRR 201-6.5(c)(2)	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring	4
FACILITY	6NYCRR 201-6.5(c)(3)(ii)	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring	5
FACILITY	6NYCRR 201-6.5(d)(5)	Compliance schedules	16
FACILITY	6NYCRR 201-6.5(e)	Compliance Certification	6



New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 9-5632-00007/00039 Renewal Number: 1

02/21/2007

FACILITY	6NYCRR 201-6.5(f)(6)	Off Permit Changes	17
FACILITY	6NYCRR 201-6.5(g)	Permit shield	24
FACILITY	6NYCRR 201-7	Federally Enforceable Emissions Caps	25, 26, 27, 28, 29, 30
FACILITY	6NYCRR 202-1.1	Required emissions tests.	18
FACILITY	6NYCRR 202-2.1	Emission Statements - Applicability	7
FACILITY	6NYCRR 202-2.5	Emission Statements - record keeping requirements.	8
FACILITY	6NYCRR 211.2	General Prohibitions - air pollution prohibited.	48
FACILITY	6NYCRR 211.3	General Prohibitions - visible emissions limited	19
FACILITY	6NYCRR 212.4(c)	General Process Emission Sources - emissions from new processes and/or modifications	31
FACILITY	6NYCRR 212.6(a)	General Process Emission Sources - opacity of emissions limited	32
FACILITY	6NYCRR 215	Open Fires	9
M-BC001/-/001	6NYCRR 225-1.2(a)(2)	Sulfur in Fuel Limitations Post 12/31/87.	39, 40, 41
M-BC001/-/001	6NYCRR 227-1.2(a)(4)	Particulate Emissions Firing Solid Fuels.	42
M-BC001	6NYCRR 227-1.3(a)	Smoke Emission Limitations.	36
M-BG002/-/005	6NYCRR 227-1.3(a)	Smoke Emission Limitations.	44
M-BC001	6NYCRR 227-1.5	Fuel mixtures.	37
M-BC001/-/001	6NYCRR 227-2.4(b)(1)	Control Requirements for large boilers which are not case by case.	43
M-BG002/00027/005/G0005	6NYCRR 227-2.4(c)(2)	Emission limitations for mid-sized boilers firing gas, distillate or residual fuels.	45

Applicability Discussion:

Mandatory Requirements: The following facility-wide regulations are included in all Title V permits:

ECL 19-301.

This section of the Environmental Conservation Law establishes the powers and duties assigned to the Department with regard to administering the air pollution control program for New York State.

6NYCRR Part 200-.6

Acceptable ambient air quality - prohibits contravention of ambient air quality standards without mitigating measures

6NYCRR Part 200-.7

**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 9-5632-00007/00039    Renewal Number: 1**



**02/21/2007**

Anyone owning or operating an air contamination source which is equipped with an emission control device must operate the control consistent with ordinary and necessary practices, standards and procedures, as per manufacturer's specifications and keep it in a satisfactory state of maintenance and repair so that it operates effectively

6NYCRR Part 201-1.4

This regulation specifies the actions and recordkeeping and reporting requirements for any violation of an applicable state enforceable emission standard that results from a necessary scheduled equipment maintenance, start-up, shutdown, malfunction or upset in the event that these are unavoidable.

6NYCRR Part 201-1.7

Requires the recycle and salvage of collected air contaminants where practical

6NYCRR Part 201-1.8

Prohibits the reintroduction of collected air contaminants to the outside air

6NYCRR Part 201-3.2(a)

An owner and/or operator of an exempt emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains exempt emission sources or units, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

6NYCRR Part 201-3.3(a)

The owner and/or operator of a trivial emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains trivial emission sources or units subject to this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

6NYCRR Part 201-6

This regulation applies to those terms and conditions which are subject to Title V permitting. It establishes the applicability criteria for Title V permits, the information to be included in all Title V permit applications as well as the permit content and terms of permit issuance. This rule also specifies the compliance, monitoring, recordkeeping, reporting, fee, and procedural requirements that need to

**New York State Department of Environmental Conservation  
Permit Review Report**

**Permit ID: 9-5632-00007/00039   Renewal Number: 1**



**02/21/2007**

be met to obtain a Title V permit, modify the permit and demonstrate conformity with applicable requirements as listed in the Title V permit. For permitting purposes, this rule specifies the need to identify and describe all emission units, processes and products in the permit application as well as providing the Department the authority to include this and any other information that it deems necessary to determine the compliance status of the facility.

6NYCRR 201-6.5(a)(4)

This mandatory requirement applies to all Title V facilities. It requires the permittee to provide information that the Department may request in writing, within a reasonable time, in order to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. The request may include copies of records required to be kept by the permit.

6NYCRR 201-6.5(a)(7)

This is a mandatory condition that requires the owner or operator of a facility subject to Title V requirements to pay all applicable fees associated with the emissions from their facility.

6NYCRR 201-6.5(a)(8)

This is a mandatory condition for all facilities subject to Title V requirements. It allows the Department to inspect the facility to determine compliance with this permit, including copying records, sampling and monitoring, as necessary.

6NYCRR Part 201-6.5(c)

This requirement specifies, in general terms, what information must be contained in any required compliance monitoring records and reports. This includes the date, time and place of any sampling, measurements and analyses; who performed the analyses; analytical techniques and methods used as well as any required QA/QC procedures; results of the analyses; the operating conditions at the time of sampling or measurement and the identification of any permit deviations. All such reports must also be certified by the designated responsible official of the facility.

6NYCRR Part 201-6.5(c)(2)

This requirement specifies that all compliance monitoring and recordkeeping is to be conducted according to the terms and conditions of the permit and follow all QA requirements found in applicable regulations. It also requires monitoring records and supporting information to be retained for at least 5 years from the time of sampling, measurement, report or application. Support information is defined as including all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

6NYCRR Part 201-6.5(c)(3)(ii)

This regulation specifies any reporting requirements incorporated into the permit must include provisions regarding the notification and reporting of permit deviations

**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 9-5632-00007/00039    Renewal Number: 1**



**02/21/2007**

and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken.

6NYCRR 201-6.5(d)(5)

This condition applies to every Title V facility subject to a compliance schedule. It requires that reports, detailing the status of progress on achieving compliance with emission standards, be submitted semiannually.

6NYCRR Part 201-6.5(e)

Sets forth the general requirements for compliance certification content; specifies an annual submittal frequency; and identifies the EPA and appropriate regional office address where the reports are to be sent.

6NYCRR 201-6.5(f)(6)

This condition allows changes to be made at the facility, without modifying the permit, provided the changes do not cause an emission limit contained in this permit to be exceeded. The owner or operator of the facility must notify the Department of the change. It is applicable to all Title V permits which may be subject to an off permit change.

6NYCRR Part 201-6.5(g)

Permit Exclusion Provisions - specifies those actions, such as administrative orders, suits, claims for natural resource damages, etc that are not affected by the federally enforceable portion of the permit, unless they are specifically addressed by it.

6NYCRR Part 202-1.1

This regulation allows the department the discretion to require an emission test for the purpose of determining compliance. Furthermore, the cost of the test, including the preparation of the report are to be borne by the owner/operator of the source.

6NYCRR Part 202-2.1

Requires that emission statements shall be submitted on or before April 15th each year for emissions of the previous calendar year.

6NYCRR Part 202-2.5

This rule specifies that each facility required to submit an emission statement must retain a copy of the statement and supporting documentation for at least 5 years and must make the information available to department representatives.

6NYCRR Part 211-.2

This regulation prohibits any emissions of air contaminants to the outdoor atmosphere which may be detrimental to human, plant or animal life or to property, or which unreasonably interferes with the comfortable enjoyment of life or property regardless of the existence of any specific air quality standard or emission limit.

## New York State Department of Environmental Conservation

### Permit Review Report

Permit ID: 9-5632-00007/00039 Renewal Number: 1



02/21/2007

#### 6 NYCRR Part 211.3

This condition requires that the opacity (i.e., the degree to which emissions other than water reduce the transmission of light) of the emissions from any air contamination source be less than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent.

#### 6 NYCRR Part 215

Prohibits open fires at industrial and commercial sites.

#### 40 CFR Part 68.

This Part lists the regulated substances and their applicability thresholds and sets the requirements for stationary sources concerning the prevention of accidental releases of these substances.

#### 40 CFR Part 82, Subpart F

Subpart F requires the reduction of emissions of class I and class II refrigerants to the lowest achievable level during the service, maintenance, repair, and disposal of appliances in accordance with section 608 of the Clean Air Act Amendments of 1990. This subpart applies to any person servicing, maintaining, or repairing appliances except for motor vehicle air conditioners. It also applies to persons disposing of appliances, including motor vehicle air conditioners, refrigerant reclaimers, appliance owners, and manufacturers of appliances and recycling and recovery equipment. Those individuals, operations, or activities affected by this rule, may be required to comply with specified disposal, recycling, or recovery practices, leak repair practices, recordkeeping and/or technician certification requirements.

### **Facility Specific Requirements**

In addition to Title V, MORTON SALT DIV has been determined to be subject to the following regulations:

#### 40CFR 63-DDDDD

This subpart establishes national emission limits and work practice standards for hazardous air pollutants (HAP) emitted from industrial, commercial, and institutional boilers and process heaters. It also establishes requirements to demonstrate initial and continuous compliance with the emission limits and work practice standards.

#### 40CFR 64

The federal Compliance Assurance Monitoring (CAM) rule, 40 CFR Part 64, requires monitoring of control device, capture system, and/or process parameters to provide a reasonable assurance of compliance with emission limitations or standards. It applies to emission units that use a control device to comply with certain standards and limitations and that have potential pre-control device emissions equal to or greater than a major source threshold.

## New York State Department of Environmental Conservation

### Permit Review Report

Permit ID: 9-5632-00007/00039    Renewal Number: 1

02/21/2007



Acid Rain program requirements; stratospheric ozone protection requirements; post-1990 New Source Performance Standards, Emission Guidelines, and National Emission Standards for Hazardous Air Pollutants; and some other limitations are exempt from CAM. However, many of the exempt requirements are subject to less stringent periodic monitoring under 40 CFR Part 70 and 6NYCRR Subpart 201-6.

#### 6NYCRR 201-7

This regulation sets forth an emission cap that cannot be exceeded by the facility. In this permit that cap is

#### 6NYCRR 212.4 (c)

This rule requires existing sources (in operation after July 1, 1973) of solid particulates with environmental rating of B or C which are not subject to Table 5 "Processes for which Permissible Emission Rate is Based on Process Weight, to be limited to a particulate emission rate not to exceed 0.05 grains per dry standard cubic foot.

#### 6NYCRR 212.6 (a)

This rule specifies an opacity limitation of less than 20% for any six consecutive minute period for all process emission sources.

#### 6NYCRR 225-1.2 (a) (2)

This regulation prohibits any person from selling, offering for sale, purchasing or using any fuel which contains sulfur in a quantity exceeding the limitations set forth in Table 1, Table 2, or Table 3 of this section.

#### 6NYCRR 227-1.2 (a) (4)

This regulation establishes a particulate emission limit in terms of lbs per mmBtu of heat input for stationary combustion units which fire solid fuels at variable sizes of heat input (mmBtu/hr).

#### 6NYCRR 227-1.3 (a)

This regulation prohibits any person from operating a stationary combustion installation which emits smoke equal to or greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.

#### 6NYCRR 227-1.5

This regulation provides for determination of a permissible particulate emission rate from combustion devices using more than one type of fuel simultaneously.

#### 6NYCRR 227-2.4 (b) (1)

This paragraph provides a table for gas only, gas and/or oil firing capable, pulverized coal, and overfeed stoker emission limits. Compliance is determined by a stack test.

#### 6NYCRR 227-2.4 (c) (2)

This regulation requires mid-size boilers (fuel combustion units with a maximum heat input capacity greater than 50 million Btu per hour and equal to or less than 100 million Btu per hour that produce steam or heats water or any other heat transfer medium) to meet the following emission limits (listed in





**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 9-5632-00007/00039    Renewal Number: 1**

**02/21/2007**

M-BC001/-/001	operations work practice involving specific operations	41
M-BC001/-/001	intermittent emission testing	42
M-BC001	monitoring of process or control device parameters as surrogate	36
M-BG002/-/005	monitoring of process or control device parameters as surrogate	44
M-BC001/-/001	intermittent emission testing	43
M-BG002/00027/005/G0005	intermittent emission testing	45

**Basis for Monitoring**

**6NYCRR Part 201-7 - Federal Enforceable Emission Caps**

Morton Salt is a potentially major source of HAP emissions. The facility has accepted limitations on the HAP emissions to remain a minor source and avoid applicability to 40 CFR 63 Subpart DDDDD. The permit requirements used to demonstrate compliance with the emission limit include an initial compliance test, fuel analysis plan, establishment of operating parameters, and continuous compliance demonstration.

**6NYCRR Part 212 - General Process Emission Sources:**

The particulate emissions generated during the salt production processes are regulated under 6NYCRR Part 212. These sources are applicable to an allowable particulate emission rate and are regulated by an opacity limit. Compliance with this regulation is accomplished through the operation of emission control equipment and a daily visible emission observation.

**6NYCRR Part 225 -1, Fuel Composition and Use - Sulfur Limitations**

The coal sulfur content is limited as specified in this regulation. Morton Salt demonstrates compliance with this requirement through a fuel sampling and analysis plan.

**6NYCRR Part 227-1, Stationary Combustion Installations**

The particulate emissions from the coal fired boiler are applicable to an allowable emission rate and are regulated by an opacity limit. Compliance with this regulation is accomplished through the use of air pollution control equipment, monitoring of excess opacity using an opacity meter, visible emission observations, and completion of a performance test once per permit term.

**6NYCRR Part 227-2, Nox RACT**

The 138 mmBtu/hr coal fired boiler and the 92.5 mmBtu/hr natural gas fired boiler are each subject to the control requirements, monitoring, reporting, and recordkeeping requirements of 6NYCRR Part 227-2. Morton Salt demonstrates compliance with the Nox RACT emission limit for the coal fired boiler by completing a performance test once per permit term. Demonstration of compliance with the NOx RACT emission limit on the gas fired boiler was completed as required by the previous permit modification. Additional testing of the gas boiler is not intended to be completed during this permit term.

**6NYCRR Part 231-2 and 40CFR52.21- New Source Review:**

Emission Unit M-BG002 includes a 92.5 mmBtu/hr natural gas fired boiler that produces steam for building heat and steam for salt production and drying. As part of MOD1 to the initial Title V Permit, Morton Salt accepted a limit on the Nox emissions to remain below the significant net emissions increase threshold of 40 tpy and not be subject to New Source Review.

**40 CFR 64 - Compliance Assurance Monitoring:**

**New York State Department of Environmental Conservation**

**Permit Review Report**

**Permit ID: 9-5632-00007/00039    Renewal Number: 1**

**02/21/2007**



Particulate emissions generated from the combustion of coal and from the production and packaging of salt products are applicable to the CAM Rule. In general, the monitoring requirements developed in the CAM Plan include daily visible emission monitoring of the fabric filters and wet scrubbers, weekly differential pressure readings across the fabric filters and wet scrubbers, and an hourly measurement of total power inlet to the ESP.