



**FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION**

Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

**RICK SCOTT
GOVERNOR**

**JENNIFER CARROLL
LT. GOVERNOR**

**HERSCHEL T. VINYARD JR.
SECRETARY**

Electronically Sent- Received Receipt Requested

FINAL PERMIT

PERMITTEE

Morton Salt, Inc.
450 Cargo Road
Port Canaveral, FL 32920

Air Permit No. 0090095-012-AC
Permit Expires: 08/30/2014
Site Name: Port Canaveral Facility
Minor Source Air Construction Permit
Project Name: New belt conveyor

Authorized Representative:
Mr. Michael L. Markley, Facility Manager

This is the final air construction permit, which authorizes the modification of EU 003 to allow for the installation of one new belt conveyor. The proposed work will be conducted at the Morton Salt, Inc. Port Canaveral Facility (Standard Industrial Classification No. 0051). The facility is located in Brevard County at 450 Cargo Road in Port Canaveral, Florida. The UTM coordinates are Zone 17, 537.87 km East, and 3143.17 km North.

This final permit is organized by the following sections:

- Section 1. General Information
- Section 2. Administrative Requirements
- Section 3. Facility-wide and Emissions Unit Specific Conditions
- Section 4. Appendices

Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of Section 4 of this permit.

This air pollution permit is issued under the provisions of: Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). The permittee is authorized to conduct the proposed work in accordance with the conditions of this permit. This project is subject to the general preconstruction review requirements in Rule 62-212.300, F.A.C. and is not subject to the preconstruction review requirements for major stationary sources in Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

Upon issuance of this final permit, any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statutes by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel (Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000) and by filing a copy of the notice of appeal accompanied by

the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within 30 days after this order is filed with the clerk of the Department.

Executed in Orange County, Florida



December 4, 2012

Caroline D. Shine
District Air Program Administrator
Central District

Date

CERTIFICATE OF SERVICE

The undersigned, duly designated deputy agency clerk hereby certifies that this Final Air Permit package (including the Final Determination, the Final Permit and the Appendices) was sent by electronic mail (or a link to these documents made available electronically on a publicly accessible server) with received receipt requested before the close of business on December 4, 2012 to the persons listed below.

Michael L. Markley, Facility Manager (mmarkley@mortonsalt.com)

Roger T. Caldwell, Bottorf Associates, Inc., (roger@bottorf.com)

Alan Zahm, P.E. (alanzahm@embarqmail.com)

Clerk Stamp

FILED, on this date, pursuant to Section 120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.



December 4, 2012

(Clerk)

(Date)

SECTION 1. GENERAL INFORMATION

FACILITY AND PROJECT DESCRIPTION

Existing Facility

The existing facility consists of the following emissions units.

Facility ID No. 0090095	
ID No.	Emission Unit Description
001	60 ton/hr. Rotary Kiln Dryer equipped with a wet scrubber
002	Pellet Production Line
003	Solar Salt Production System (Process) equipped with a baghouse

Project Description and Affected/ Emission Units

This project will allow for the installation of a new belt conveyor from the Solar Salt Production System (EU 003) to the Pellet Production Line (EU 002) to allow for bagging of solar salt product on the pellet production line.

ID No.	Emission Unit Description
003	Install one belt conveyor (BC-10) 18-inches wide and 23-feet long hooded and ducted on both ends. Particulate emission points will be controlled by the existing EU 003 baghouse, Dustex, Model 3420-9-10 with a particulate collection efficiency of approximately 99.8%.

NOTE: Please reference the Permit No., Facility ID, and Emission Unit ID in all correspondence, test report submittals, applications, etc.

FACILITY REGULATORY CLASSIFICATION

- The facility is not a major source of hazardous air pollutants (HAP).
- The facility has no units subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility is not a Title V major source of air pollution in accordance with Chapter 213, F.A.C.
- The facility is not a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.
- This facility is a synthetic non-Title V source for particulates.
- The facility is subject to 40 CFR 60, Subparts A and OOO.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: The permitting authority for this project is the Florida Department of Environmental Protection, Central District Air Resource Management Section. The Central District's mailing address and phone number is:

Florida Department of Environmental Protection
Central District Office
Air Resource Management Section
3319 Maguire Blvd., Ste. 232
Orlando, FL 32803-3767
Telephone: 407-897-4100

All documents related to applications for permits shall be submitted to the above address.

2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Central District Air Resource Management Section (see above mailing address and phone number).
3. Appendices: The following Appendices are attached as part of this permit:
 - a. Appendix A. Citation Formats and Glossary of Common Terms;
 - b. Appendix B. General Conditions;
 - c. Appendix C. Common Conditions; and
 - d. Appendix D. Common Testing Requirements.
 - e. Appendix E. 40 CFR Part 60, Subpart A – General Provisions
 - f. Appendix F. 40 CFR Part 60, Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants
4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.
5. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time.
[Rule 62-4.080, F.A.C.]
6. Modifications: Unless otherwise exempt by rule, the permittee shall not initiate any construction, reconstruction, or modification at the facility and shall not install/modify any pollution control device at the facility without obtaining prior authorization from the Department. Modification is defined as: Any physical change or changes in the method of operations or addition to a facility that would result in an increase in the actual emissions of any air pollutant subject to air regulations, including any not previously emitted, from any emission unit or facility.
[Rules 62-210.200 - Definition of "Modification" and 62-210.300(1)(a), F.A.C.]

SECTION 2. ADMINISTRATIVE REQUIREMENTS

7. Application for Air Operation Permit

Operation Permit Renewal Application: A completed application for renewal of the operation permit shall be submitted to the Permitting Authority no later than 60 days prior to the expiration date of this construction permit. To properly apply for an operation permit, the applicant shall submit the following:

- a. the appropriate permit application form (*see current version of Rule 62-210.900, F.A.C. (Forms and Instructions), and/or FDEP Division of Air Resource Management website at: <http://www.dep.state.fl.us/air/>*);
- b. the appropriate operation permit application fee from Rule 62-4.050(4)(a), F.A.C.;
- c. copies of the most recent compliance test reports required by Specific Condition No. **A.7.** if not previously submitted; and
- d. copies of the most recent two months of records/logs specified in Specific Condition No(s). **A.13. and A.16.**

[Rules 62-4.030, 62-4.050, 62-4.070(3), 62-4.090, 62-210.300(2), and 62-210.900, F.A.C.]

SECTION 3. FACILITY-WIDE AND EMISSIONS UNIT SPECIFIC CONDITIONS (DRAFT)

A. EU 003-Solar Salt Production Line

This section of the permit addresses the following emissions unit.

ID No.	Emission Unit Description
EU 003	<p>Emission Unit 003 is a 60 tons per hour (tph) solar salt production process and includes formally fugitive particulate emission points and the following dried Solar Salt equipment:</p> <p>One (1) dual roll crusher (rated at 8 tph) Five (5) screw conveyors (SC-1 and 2 rated at 70 tph, SC-3 rated at 18 tph, SC-4 rated at 36 tph, SC-10 rated at 8 tph) Two (2) bucket elevators (E-1 rated at 65 tph, E-4 rates at 27 tph) Four (4) belt conveyors (BC-2, 3, 8 and 9 are each 18 inch wide) One (1) four deck vibrating screens (VS-1 - 50 sq. ft. surface area) One (1) single deck vibrating screens (VS-4 has a 18 sq. ft. surface area) One (1) filling bag machine (rated at 27 tph) Two open bag hoppers – (H-2 has 16 ton capacity, H-3 has 5 ton capacity) Three (3) open storage bins (Course Bin – 100 ton capacity, Medium Bin – 80 ton capacity, Fines Bin – 120 ton capacity)</p> <p>This project consists of the installation of one belt conveyor (BC-10) 18-inches wide and 23-feet long, from EU 003 to the Pellet Production Line (EU 002), to allow for bagging of solar salt product on the pellet production line (EU 002). The conveyor belt is hooded and ducted on both ends.</p> <p>Particulate emission points will be controlled by the existing EU 003 baghouse, Dustex, Model 3420-9-10 with a particulate collection efficiency of approximately 99.8% and subject to NSPS Subpart OOO standard of 0.014 gr/dscf..</p>

PERFORMANCE RESTRICTIONS

- A.1. Federal Regulatory Requirements: This emission unit is subject to 40 CFR 60, Subpart A, General Provisions and 40 CFR Part 60, Subpart OOO–Standards of Performance for Nonmetallic Mineral Processing Plants, which is adopted by reference in Rule 62-204.800, F.A.C. [Rule 62-204.800, F.A.C.]
- A.2. Permitted Capacity: The process rate for the solar salt production process shall not exceed 525,600 tons of salt handled per any consecutive 12-month period. [Rules 62-210.200, F.A.C. - Definitions - (PTE) and 62-4.070(3), F.A.C.]
- A.3. Restricted Operation: The hours of operation are not limited (8,760 hours per year). [Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]

EMISSIONS STANDARDS

SECTION 3. FACILITY-WIDE AND EMISSIONS UNIT SPECIFIC CONDITIONS (DRAFT)

A. EU 003-Solar Salt Production Line

- A.4. Reasonable Precautions of Unconfined Emissions of Particulate Matter: All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter (PM) from the facility. These provisions are applicable to any source, including but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition or wrecking, or industrial-related activities such as loading, unloading, storing, and handling. Reasonable precautions to be taken shall include, but not be limited to the following:
- (a) Paving and maintenance of roads, parking areas, and yards;
 - (b) Application of water or chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing;
 - (c) Application of asphalt, water, oil, chemicals, or other dust suppressants to unpaved roads, yards, open stock piles, and similar activities;
 - (d) Removal of PM from roads and other paved areas under the control of the owner or operator of the facility to prevent re-entrainment, and from buildings or work areas to prevent particulate from becoming airborne;
 - (e) Landscaping or planting of vegetation;
 - (f) Sprinkling with water shall be used as necessary on paved areas, unpaved areas, stockpiles, and during loading/unloading operations;
 - (g) Prevent emissions from material handling by a loader shall be achieved by reducing the material freefall as the bucket dumps the aggregate. Drop heights shall be minimized from conveyors and screens; and
 - (h) Enclosure or covering of conveyor systems.
- [Rule 62-4.070(3), F.A.C.]
- A.5. Fugitive Emissions: §60.675(d) of 40 CFR Part 60 Subpart OOO-Standards of Performance for Nonmetallic Mineral Processing Plants with regard to fugitive emissions applies to the Building enclosing EU 002 and EU 003. [§60.675(d) of 40 CFR Part 60 Subpart OOO-Standards of Performance for Nonmetallic Mineral Processing Plants
{Permitting Note: One wall is missing on the enclosed building.}]
- A.6. Emissions Limits: The visible emissions and particulate emissions from EU 003 Production Process shall not exceed the appropriate limits (7% opacity and 0.014 gr/dscf) specified in the CFR Part 60, Subpart OOO-Standards of Performance for Nonmetallic Mineral Processing Plants.
[40 CFR Part 60, Subpart OOO-Standards of Performance for Nonmetallic Mineral Processing Plants]
{Permitting Note: This limit is for units constructed after April 22, 2008.}

TESTING REQUIREMENTS

SECTION 3. FACILITY-WIDE AND EMISSIONS UNIT SPECIFIC CONDITIONS (DRAFT)

A. EU 003-Solar Salt Production Line

- A.7. Initial Compliance Tests: The Solar Salt Production Line baghouse must be tested for particulate emissions in accordance with EPA Method 5 (3 runs) or EPA Method 17 (3 runs) and concurrently (1 of the 3 runs) for visible emissions in accordance with EPA Method 9 with the new belt conveyor BC-10 in operation. The emissions testing shall be conducted within 60 days of achieving permitted capacity, but no later than 180 days after initial operation of the new belt conveyor BC-10. Each EPA Method 5 run or EPA Method 17 run shall last at least 60 minutes. The EPA Method 9 test shall last at least 30 minutes. Please see §60.675 of 40 CFR Part 60 Subpart OOO.
[Rules 62-4.070(3) and 62-297.310(7)(a), F.A.C.]
- A.8. Test Methods: EPA Method 5 or EPA Method 17 shall be used to determine the particulate matter concentration for the Solar Salt Production Line Baghouse with the new belt conveyor BC-10 in operation. The sample volume shall be at least 1.70 dscm (60 dscf). Please see §60.675 of 40 CFR Part 60 Subpart OOO.
[Rule 62-297.401, F.A.C. and §60.675 of 40 CFR Part 60 Subpart OOO]
- A.9. Test Method: EPA Method 9 shall be used to determine opacity for the initial compliance test. EPA Method 9 shall be conducted for thirty minutes. Please see §60.675 of 40 CFR Part 60 Subpart OOO.
[Rule 62-297.401 F.A.C. and §60.675 of 40 CFR 40 CFR Part 60 Subpart OOO]
- A.10. Test Method for Monitoring of Operations: EPA Method 22 shall be used to determine opacity for the quarterly 30-minute visible emissions inspections as indicated §60.674(c) of 40 CFR Part 60 Subpart OOO. Please see §60.674(c) of 40 CFR Part 60 Subpart OOO. Additionally, see Specific Condition No. 22 of this permitting section. [Rule 62-297.401 F.A.C. and §60.674 of 40 CFR Part 60 Subpart OOO]
- A.11. Test Methods: Required tests shall be performed in accordance with the following reference methods.

Method	Description of Method and Comments
EPA 5	Determination of Particulate Emissions from Stationary Sources
EPA 9	Visual Determination of the Opacity of Emissions from Stationary Sources
EPA 17	Determination of Particulate Emissions from Stationary Sources (In-Stack Filtration)
EPA 22	Visual Determination of Fugitive Emissions from Material Sources and smoke Emissions from Flares

The above methods are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rules 62-204.800 and 62-297.100, F.A.C.; and Appendix A of 40 CFR 60]

SECTION 3. FACILITY-WIDE AND EMISSIONS UNIT SPECIFIC CONDITIONS (DRAFT)

A. EU 003-Solar Salt Production Line

- A.12. Operation Rate During Testing The maximum permitted operating rate for the Solar Salt Production Line is 60 tons per hour of salt handled. Testing of emissions shall be conducted with the emissions unit operation at permitted capacity. Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impractical to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity. [Rule 62-297.310(2), F.A.C.]

MONITORING REQUIREMENTS

- A.13. Monitoring Requirement for Pellet Production Line: In accordance with §60.674(c) of 40 CFR Part 60 Subpart OOO-Standards of Performance, the permittee shall conduct quarterly 30-minute visible emissions inspections using EPA Method 22. The Method 22 test shall be conducted while the baghouse is operating. The test is successful if no visible emissions are observed. If any visible emissions are observed, the owner or operator of the affected facility must initiate corrective action within 24 hours to return the baghouse to normal operation. The owner or operator must record each Method 22 test, including the date and any corrective actions taken, in the logbook required under §60.676(b). The owner or operator of the affected facility may establish a different baghouse-specific success level for the visible emissions test (other than no visible emissions) by conducting a PM performance test according to §60.675(b) simultaneously with a Method 22 to determine what constitutes normal visible emissions from that affected facility's baghouse when it is in compliance with the applicable PM concentration limit in Table 2 of 40 CFR 60 Subpart OOO. The revised visible emissions success level must be incorporated into the permit for the affected facility.

As an alternative to the periodic Method 22 visible emissions inspections specified in the above paragraph, the owner or operator of any affected facility for which construction, modification, or reconstruction commenced on or after April 22, 2008, that uses a baghouse to control emissions may use a bag leak detection system. The owner or operator must install, operate, and maintain the bag leak detection system according to paragraphs (d)(1) through (3) of 40 CFR Part 60 Subpart OOO.

[40 CFR Part 60 Subpart OOO-Standards of Performance, and Rule 62-204.800, F.A.C.]

NOTIFICATION REQUIREMENTS

- A.14. Test Notification: The permittee shall notify the Compliance Authority at least 15 days prior to any required tests. The notification must include the following information: the date, time, and location of each test; the name and telephone number of the facility's contact person who will be responsible for coordinating the test; and the name, company, and the telephone number of the person conducting the test.

[Rules 62-4.070(3) and 62-297.310(7)(a)9., F.A.C.]

SECTION 3. FACILITY-WIDE AND EMISSIONS UNIT SPECIFIC CONDITIONS (DRAFT)

A. EU 003-Solar Salt Production Line

- A.15. Startup Notification: The facility is subject to 40 CFR Part 60 Subpart A-General Provisions (See Appendix E). **The conditions are incorporated into this permit (attached and part of this permit).** This includes the Initial Startup Notification and Modification Notification as pursuant to §61.07 (Notification and recordkeeping) of 40 CFR Part 60 Subpart A-General Provisions. [40 CFR Part 60 Subpart A §61.07]

RECORDS AND REPORTS

- A.16. Monthly Log: In order to demonstrate compliance with Specific Condition Numbers **A.2.** and **A.13.** of this permit, the permittee shall maintain a log at the facility for a period of at least 5 years from the date the data is recorded. The log shall contain the following:

Monthly

- a) designation of the month and year of operation for which the records are being tabulated;
- b) consecutive 12-months total of the amount of material processed (tons) by the Pellet Line; and,
- c) each Method 22 (40 CFR part 60, Appendix A-7) test, including the date and any corrective actions taken, in accordance with Condition No. **A.13.**

Note: A consecutive 12 months total is equal to the total for the month in question plus the totals for the eleven months previous to the month in question. A consecutive 12-months total treats each month of the year as the end of a 12-months period. A 12-months total is not a year-to-date total. Facilities or Emission units that have not been operating for 12 months should retain 12 months totals using whatever number of months of data are available until such a time as a consecutive 12 months total can be maintained each month. **The monthly logs shall be completed by the end of the following month.**

[Rule 62-4.070(3), F.A.C.]