Florida Department of Environmental Protection

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PERMITTEE
Morton International, Inc.
450 Cargo Road
Port Canaveral, FL 32920

Authorized Representative:
Michael L. Markley, Facility Manager

Air Permit No. 0090095-009-AC
Permit Expires: August 30, 2012

Replace Dryer (EU 001) and Add Baghouse (EU 003)
Synthetic Minor Source
Air Construction Permit

This is an Air Construction Permit, which authorizes Morton International, Inc. to construct/install a new Rotary Kiln Dryer (to replace the existing 50 tons/hour rotary kiln dryer designated as EU 001 with a 60 tons/hour rotary kiln dryer) and to construct/install a new Baghouse for the solar salt production process (newly designated as EU 003). **This air permit replaces and supercedes all previous air permits issued by the Department, including Permit No. 0090095-008-AO.** The new 60 tons/hour dryer (EU 001) is a Lochhead Haggerty, 6 feet diameter and 43 feet in length and is fired by natural gas or propane only at a maximum heat input rate of 15 MMBTU/hour. Particulate emissions from the new dryer will be controlled by the existing Ducon Venturi Type A33 wet scrubber with a particulate collection efficiency of approximately 99%. The scrubber will now control emissions from the dryer only. The existing particulate emission limits for the dryer will not be increased. *The existing pellet production line (EU 002) will not be changed.* A new solar salt production process will be designated as EU 003 and includes existing and new, formally fugitive, particulate emission points to be controlled by a new baghouse. The baghouse is a Dustex, Model 3420-9-10 with a particulate collection efficiency of approximately 99.8% and is subject to NSPS Subpart OOO standard of 0.014 gr/dscf.

The proposed work will be conducted at the Morton International, Inc. Port Canaveral Facility, which is a salt processing facility. The facility (Standard Industrial Classification No. 51) is located in Brevard County at 450 Cargo Road, Port Canaveral, Florida. The UTM coordinates are Zone 17, 537.87 km East, and 3143.17 km North.

This permit is organized by the following sections.

Section 1. General Information
Section 2. Administrative Requirements
Section 3. 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 construction permit is issued under the provisions of Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-204, 63-210, 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 Orlando, Florida

Caroline D. Shine
Program Administrator
Air Resource Management

Date: 9/29/10

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Air Permit package 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 _____ to the persons listed below.

Michael L. Markley, Facility Manager, Morton International, Inc. **(mmarkley@mortonsalt.com)**
Alan Zahm, P.E., Project Engineer, Bottorf Associates **(alanzahm@embarqmail.com)**
Roger Caldwell, V.P., Environmental Division **(roger@bottorf.com)**

Clerk Stamp

FILING AND ACKNOWLEDGEMENT FILED on this date, pursuant to Section 120.52 Florida Statutes, with the designated agency clerk, receipt of which is hereby acknowledged.

Clerk Date 9/29/10

JR/jt

FACILITY AND PROJECT DESCRIPTION

Existing Facility

The facility is a Salt Processing Facility. The existing facility consists of the following emissions units.

Facility ID No. 0694822	
ID No.	**Emissions Unit Description**
001	50 ton/hr. Rotary Kiln Dryer equipped with a wet scrubber
002	Pellet Production Line

Proposed Project

This is a synthetic minor construction permit to replace the existing rotary kiln dryer with a larger dryer and to add a new baghouse. The new 60 tons/hour dryer (EU 001) is a Lochhead Haggerty, 6 feet diameter and 43 feet in length and is fired by natural gas or propane only at a maximum heat input rate of 15 MMBTU/hour. Particulate emissions from the new dryer will be controlled by the existing Ducon Venturi Type A33 wet scrubber with a particulate collection efficiency of approximately 99%. The scrubber will now control emissions from the dryer only. The existing particulate emission limits for the dryer will not be increased. The existing pellet production line (EU 002) will not be changed. A new solar salt production process will be designated as EU 003 and includes existing and new, formally fugitive, particulate emission points to be controlled by a new baghouse. The baghouse is a Dustex, Model 3420-9-10 with a particulate collection efficiency of approximately 99.8% and is subject to NSPS Subpart OOO standard of 0.014 gr/dscf.

ID No.	Emissions Unit Description
001	60 ton/hr. Rotary Kiln Dryer equipped with a wet scrubber
003	Solar Salt Production System (Process) equipped with a baghouse

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.
- The facility (EU 002 and EU 003) is subject to 40 CFR 60, Subpart A, General Provisions and 40 CFR 60, Subpart OOO– Standards of Performance for Nonmetallic Mineral Processing Plants.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: The permitting authority for this project is the Florida Department of Environmental Protection, Central District Office. The Central District Office's mailing address is 3319 Maguire Blvd., Suite 232, Orlando, Florida 32803-3767. The phone numbers for Permitting Section are 407-893-3335 or 407-893-3334. All documents related to applications for permits to operate an emissions unit shall be submitted to the Central District Office.

2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Central District Office. The mailing address of the Central District Office is: 3319 Maguire Blvd., Suite 232, Orlando, Florida 32803-3767. The phone number for Compliance Section is 407-893-3333.

3. Appendices: The following Appendices are attached as part of this permit:
   - Appendix A. Citation Formats and Glossary of Common Terms;
   - Appendix B. General Conditions;
   - Appendix C. Common Conditions;
   - Appendix D. Common Testing Requirements;
   - Appendix E. Permit Application;
   - Appendix F. 40 CFR Part 60, Subpart A – General Provisions; and
   - Appendix G. 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: The permittee shall notify the Compliance Authority upon commencement of construction. No new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]

7. Source Obligation:

   (a) At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by virtue of a relaxation in any enforceable limitation which was established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.

   (b) At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by exceeding its projected actual emissions, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification. [Rule 62-212.400(12), F.A.C.]

A. Rotary Kiln Dryer and Pellet Production Line

This section of the permit addresses the following emissions unit.

ID No.	Emissions Unit Description
001	60 ton/hr. Rotary Kiln Dryer equipped with a wet scrubber
002	Pellet Production Line

EQUIPMENT

1. Equipment Name: The permittee may construct a 60 ton/hr replacement Rotary Kiln Dryer equipped with the existing wet venture scrubber. The new 60 tons/hour dryer (EU 001) is a Lochhead Haggerty, 6 feet diameter and 43 feet in length and is fired by natural gas or propane only at a maximum heat input rate of 15 MMBTU/hour. Particulate emissions from the new dryer will be controlled by the existing Ducon Venturi Type A33 wet scrubber with a particulate collection efficiency of approximately 99%. The scrubber will now control emissions from the dryer only.

   The current dryer (EU 001) is a 50 tons/hr. rotary kiln dryer equipped with the existing 12000 cfm wet scrubber dust collector. The current dryer particulate emissions are controlled by the existing Ducon Venturi Type A33 wet scrubber. **After the 50 TPH dryer is replaced by the new 60 TPH dryer, the 50 TPH dryer cannot be operated at this facility.** Emission Unit 002 is comprised of 2 Komerek 100-125 HP Pelletizing Presses that are being used to compact solar evaporated sea salt into water conditioning salt pellets. Auxiliary Pellet process equipment includes the following: 4 screw conveyors, 2 bucket elevators, 3 belt conveyors, 2 vibrating screen units, 1 rotary lump abrader, 1-8" diameter roll type crusher, and 1 bag filling machine. Pellet Production Process Particulate Emissions are controlled by a Dustex Model 3439-7-14 baghouse type dust collector with 98 bags, 1385 square feet of cloth area, an air to cloth ratio of 8.66 to 1 and an efficiency of approximately 99.8 percent.

PERFORMANCE RESTRICTIONS

2. Permitted Capacity: The process rate for the new dryer shall not exceed 525,600 tons per any consecutive 12-months period. The process rate for the existing dryer shall not exceed 438,000 tons per any consecutive 12-months period. The process rate for the pellet line shall not exceed 175,200 tons per any consecutive 12-months period. [Rules 62-210.200, F.A.C. - Definitions - (PTE) and 62-4.070(3), F.A.C.]

3. Authorized Fuel: The dryer (replacement or existing) is permitted to fire natural gas or propane only. [Rules 62-210.200, F.A.C. - Definitions - (PTE) and 62-4.070(3), F.A.C.]

4. Restricted Operation: The dryer (existing and replacement) hours of operation of are not limited (8760 hours per year). The pellet line hours of operation are not limited (8760 hours per year). [Rules 62-210.200, F.A.C. - Definitions - (PTE) and 62-4.070(3), F.A.C.]

EMISSIONS LIMITS AND STANDARDS

5. 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 building(s) 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.

6. 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 missing on enclosed building]

7. No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor. An objectionable odor is defined as any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. [Rules 62-210.200(214) and 62-296.320(2), F.A.C.]

8. The Dryer (EU 001) is subject to Rule 62-296.320(4)(a)2. F.A.C. For process weight rates up to 30 tons per hour, P_1, and for process weights greater than 30 tons per hour, P_2, the respective allowable emission rates, E_1 and E_2 in pounds per hour are given below:

$$E_1 = 3.59\ (P_1^{0.62}) \qquad E_2 = 17.31\ (P_2^{0.16})$$

The maximum process rate is 60.0 tons per hour results in an allowable emission rate of 33.33 pounds per hour. As requested by the applicant, the allowable particulate emissions are capped at 5.7 pounds per hour and 25.0 tons per any consecutive 12-months period.
[Rules 62-210.200, F.A.C. - Definitions - (PTE) and 62-4.070(3), F.A.C.]

9. The visible emissions from the dryer must be comply with Rule 62-296.310(2), F.A.C. (limited to less than 20% opacity).

10. Emissions Limits: The visible emissions and particulate emissions from the Pellet Line Production Process shall not exceed the appropriate limits (7% opacity and 0.022 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 August 31, 1983 but before April 22, 2008]

11. NSPS: The facility is subject to 40 CFR Part 60 Subpart A-General Provisions **(See Appendix F). 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.

12. NSPS: The facility is subject to 40 CFR Part 60 Subpart OOO-Standards of Performance for Nonmetallic Mineral Processing Plants **(See Appendix G). The conditions are incorporated into this permit (attached and part of this permit).**

TESTING REQUIREMENTS

13. Initial Compliance Tests: The new dryer must be tested for particulate emissions in accordance with EPA Method 5 (3 runs) and concurrently (1 run of 3 runs) for visible emissions in accordance with EPA Method 9 within 60 days after achieving permitted capacity, but no later than 180 days after initial operation of the unit. Each EPA Method 5 run shall last at least 60 minutes. The EPA Method 9 shall last at least **30 minutes**. [Rules 62-4.070(3) and 62-297.310(7)(a), F.A.C.]
[Permitting Note: The dryer (EU 001) is **not** subject to 40 CFR Part 60 Subpart OOO]

14. Compliance Tests: The pellet production line must be tested for particulate emissions in accordance with EPA Method 5 (3 runs) or EPA Method 17 (3 runs) and concurrently (1 run of the 3 runs) for visible emissions in accordance with EPA Method 9 at least 90 days prior to the permit expiration date. 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(b) of 40 CFR Part 60 Subpart OOO.
[Rules 62-4.070(3) and 62-297.310(7)(a), F.A.C.]

15. Test Methods: EPA Method 5 or EPA Method 17 shall be used to determine the particulate matter concentration for the pellet production line. The sample volume shall be at least 1.70 dscm (60 dscf). Please see §60.675(b) of 40 CFR Part 60 Subpart OOO.
[Rule 62-297.401, F.A.C. and §60.675 of 40 CFR Part 60 Subpart OOO]

16. Test Methods: EPA Method 9 shall be used to determine opacity for the new dryer and the pellet production line. EPA Method 9 shall be conducted for thirty minutes or the length of the batch/cycle if less than 30 minutes. Please see §60.675(b)(2) of 40 CFR Part 60 Subpart OOO for the pellet production line. [Rule 62-297.401 F.A.C.]

17. 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)

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]

18. Test Requirements: The permittee shall notify the Compliance Authority of this office at least 15 days prior to any required tests. The permittee shall indicate the date, time, and place of such tests, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator. Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. [Rule 62-297.310(7)(a)9., F.A.C.]

19. The maximum permitted operating rate (process weight rate) for the new (replacement) 60 TPH Dryer is 60 tons per hour. The maximum permitted operating rate (process weight rate) for the existing 50 TPH Dryer is 50 tons per hour. The maximum permitted operating rate (process rate rate) for the Pellet Production Line is 20 tons per hour. **After the 50 TPH dryer is replaced by the new 60 TPH dryer, the 50 TPH dryer cannot be operated at this facility.** 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.]

20. The stack sampling facility must comply with Rule 62-297.310(6), F.A.C., regarding minimum requirements that include but are not limited to: location of sampling ports, work platform area hand rails and toe rails, caged ladder, access and electrical power.

21. A water flow meter, water pressure gauge, and a differential pressure gauge is required to measure the water flow and pressure drop across the scrubber a minimum of 10 days before the stack test is performed.
[Rule 62-297.310(5), F.A.C.]

RECORDS AND REPORTS

22. **NSPS Notification and Reporting:** The pellet production line is subject to §60.676 of 40 CFR Part 60 Subpart OOO. Please see §60.676 of 40 CFR Part 60 Subpart OOO. Regarding **§60.676(k)** of 40 CFR Part 60 Subpart OOO, please submit notifications and reports to the Compliance Authority (this office).

23. In order to demonstrate compliance with Specific Condition Numbers 2, 3, and 8 of this permitting section and general condition number 14.c. as specified in Appendix B (General Conditions) 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 Dryer;
    c) consecutive 12-months total of the amount of material processed (tons) by the Pellet Line; and
    d) fuel records relating to general condition number 14.c. in Appendix B (General Conditions).
    e) hours of operation for the dryer
    f) consecutive 12-months total of the estimated particulate emissions from the 60 TPH dryer based on the stack test results for the 60 TPH dryer and the amount of material processed (tons) by the Dryer. This 12-months total shall start with the first month of operation for the 60 TPH dryer and shall be determined no longer than 2 months after the stack test has been completed.

    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 such as the 60 TPH dryer** 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.]

24. Recordkeeping: Logs must document the method, calculations, and formulas used in determining the usage rate and the emission rate. All calculations, including those used to derive emissions, must be clearly documented, and may be presented **in the form of a template of sample calculations**, which is filed with the logs required in this specific condition and available for review on site by regulatory inspectors. [Rule 62-4.070(3), F.A.C.]

25. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. For each test run, the report shall also indicate the information listed in Rules 62-297.310(8)(c)6., 12., 18., and 19., F.A.C. [Rule 62-297.310(8), F.A.C.]

26. Annual Operating Report: An Annual Operating Report is required to be completed and submitted for this facility as specified in Appendix C (Common Conditions) of this permit. This facility is classified as a synthetic non-Title V source. [Rule 62-210.370(3), F.A.C.]

MONITORING REQUIREMENTS

27. Monitoring Requirement for Pellet Production Line (§60.674 of 40 CFR Part 60 Subpart OOO-Standards of Performance): §60.674(c) and §60.674 (d) of 40 CFR Part 60 Subpart OOO-Standards of Performance do **not** apply to the Pellet Production Line because construction occurred before April 22, 2008. [40 CFR Part 60 Subpart OOO-Standards of Performance]

    [Permitting Note: There were no changes to the Pellet Production Line as indicated in the construction permit application received May 20, 2010.]

B. Solar Salt Production System (Process)

This section of the permit addresses the following emissions unit.

ID No.	Emissions Unit Description
003	Solar Salt Production System (Process) equipped with a baghouse

EQUIPMENT

1. Equipment Name: A new solar salt production system (process) designated as EU 003 and includes existing and new, formally fugitive, particulate emission points to be controlled by a new baghouse. The baghouse is a Dustex, Model 3420-9-10 with a particulate collection efficiency of approximately 99.8%. The new #3 dust collector will control emissions from the following dried Solar Salt equipment:

   One (1) dual roll crusher (rated at 8 tph) No change
   Five (5) screw conveyors (SC-1 and 2 increased rate from 50 tph to 70 tph, SC-3 rated at 18 tph-No change, SC-4 rate increased from 24 to 36 tph, **SC-10 rated at 8 tph**-No change)
   Two (2) bucket elevators (E-1 increased rate from 50 tph to 65 tph, E-4 rated at 27 tph-No change)
   Four (4) belt conveyors (BC-2, 3, 8 and 9 are each 18 inch wide – No change)
   One (1) four deck vibrating screens (VS-1 increased from 32 sq. ft. to 50 sq. ft. surface area)
   One (1) single deck vibrating screens (VS-4 has a 18 sq. ft. surface area-No change)
   One (1) filling bag machine (rated at 27 tph-No change)
   Two open bag hoppers – (H-2 has 16 ton capacity, H-3 has 5 ton capacity-No change)
   Three (3) open storage bins (Course Bin – 100 ton capacity, Medium Bin – 80 ton capacity, Fines Bin – 120 ton capacity-No changes)

PERFORMANCE RESTRICTIONS

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.]

3. Restricted Operation: The hours of operation of are not limited (8760 hours per year).
   [Rules 62-210.200, F.A.C. - Definitions - (PTE) and 62-4.070(3), F.A.C.]

EMISSIONS LIMITS AND STANDARDS

4. 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 missing on enclosed building]

5. Emissions Limits: The particulate emissions from the Solar Salt Production System (Process) shall not exceed the appropriate limit (0.014 gr/dscf) specified in 40 CFR Part 60, Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants (see Table 2).
   [40 CFR Part 60, Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants]

6. Emissions Standards: Visible emissions are limited to less than 20 percent opacity for the Solar Salt Production System (Process) Baghouse. See Condition No. 8 of Appendix C.

7. NSPS: The facility, including the Solar Salt Production System (Process), is subject to 40 CFR Part 60 Subpart A-General Provisions **(See Appendix F). 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.

8. NSPS: The facility, including the Solar Salt Production System (Process), is subject to 40 CFR Part 60 Subpart OOO-Standards of Performance for Nonmetallic Mineral Processing Plants **(See Appendix G). The conditions are incorporated into this permit (attached and part of this permit).**

TESTING REQUIREMENTS (SEE §60.675 FOR NSPS TESTING ADDITIONAL REQUIREMENTS)

9. Initial Compliance Tests: The Solar Salt Production System (Process) 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. **The emissions testing shall be conducted within 60 days of achieving permitted capacity, but no later than 180 days after initial operation of the unit.** 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.]

10. Test Methods: EPA Method 5 or EPA Method 17 shall be used to determine the particulate matter concentration for the Solar Salt Production System (System) Baghouse. 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]

11. 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 CFR40 CFR Part 60 Subpart OOO]

12. 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]

13. 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]

14. Test Requirements: The permittee shall notify the Compliance Authority of this office at least 15 days prior to any required tests. The permittee shall indicate the date, time, and place of such tests, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. [Rule 62-297.310(7)(a)9., F.A.C.]

15. The maximum permitted operating rate for the Solar Salt Production System (Process) 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.]

16. The stack sampling facility must comply with Rule 62-297.310(6), F.A.C., regarding minimum requirements that include but are not limited to: location of sampling ports, work platform area hand rails and toe rails, caged ladder, access and electrical power.

17. A differential pressure gauge is required to measure the pressure drop across the baghouse a minimum of 10 days before the stack test is performed.
[Rule 62-297.310(5), F.A.C.]

RECORDS AND REPORTS

18. NSPS Notification and Reporting (see §60.676 of 40 CFR Part 60 Subpart OOO): The Solar Salt Production System (Process) is subject to the Notification Requirements (including initial startup notification listed in §60.676(3)(i) and Reporting Requirements of §60.676 of 40 CFR Part 60 Subpart OOO. The notifications and reports shall be sent to the Compliance Authority. Please see §60.676 of 40 CFR Part 60 Subpart OOO. [40 CFR Part 60 Subpart OOO]

19. In order to demonstrate compliance with Specific Condition Number 2 of this permitting section and general condition number 14.c. as specified in Appendix B (General Conditions) 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; and
    b) consecutive 12-month total of the amount of material processed (tons of salt handled).

    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 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.]

20. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. For each test run, the report shall also indicate the information listed in Rules 62-297.310(8)(c)6., 12., 18., and 19., F.A.C. [Rule 62-297.310(8), F.A.C.]

21. Annual Operating Report: An Annual Operating Report is required to be completed and submitted for this facility as specified in Appendix C (Common Conditions) of this permit. This facility is classified as a synthetic non-Title V source.
[Rule 62-210.370(3), F.A.C.]

MONITORING REQUIREMENT (§60.674 of 40 CFR Part 60 Subpart OOO)

22. Monitoring Requirement (§60.674): The permittee shall choose one of the following (2 choices) to meet the monitoring requirements of §60.674 of 40 CFR Part 60 Subpart OOO and then meet the requirements of the chosen means of complying (2 choices):

    1) Conduct quarterly 30-minute visual emission inspections using EPA Method 22 and take appropriate subsequent actions as listed in §60.674(c) of 40 CFR Part 60 Subpart OOO.
    2) Install a Baghouse Leak Detection/Alarm (System) and develop and submit a monitoring plan for a Baghouse Leak Detection/Alarm (System) as described in 60.674(d) of 40 CFR Part 60 Subpart OOO. Additionally, conduct the appropriate subsequent procedures or actions as listed in §60.674(d) of 40 CFR Part 60 Subpart OOO. [§60.674 of 40 CFR Part 60 Subpart OOO]