



Florida Department of Environmental Protection

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PERMITTEE

Osceola Farms Company
Post Office Box 679
Pahokee, Florida 33476

Authorized Representative:
Jose Gonzalez, Vice President of Industrial Operations

Air Permit No. 0990019-020-AC
Permit Expires: June 30, 2017
Minor Air Construction Permit

Osceola Farms Sugarcane Mill
Facility-Wide Steam Cap Project

PROJECT

This is the final air construction permit, which replaces the restriction on the permitted days of operation of the Osceola Farms boilers with an annual facility-wide cap on steam production. The proposed work will be conducted at the existing Osceola Farms Company, which is a sugarcane mill categorized under Standard Industrial Classification No. 2061. The existing facility is located in Palm Beach County at U.S. Route 98 and Hatton Highway in Pahokee, Florida. The UTM coordinates are Zone 17, 544.2 kilometers (km) East and 2968.0 km North.

This final permit is organized into the following sections: Section 1 (General Information); Section 2 (Administrative Requirements); Section 3 (Emissions Unit Specific Conditions); and 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. As noted in the Final Determination provided with this final permit, only minor changes and clarifications were made to the draft permit.

STATEMENT OF BASIS

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, 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 Tallahassee, Florida

For:

Syed Arif, P.E., Program Administrator
Office of Permitting and Compliance
Division of Air Resource Management

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Construction 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 the date indicated below to the following persons.

Jose Gonzalez, Osceola Farms Company (Jose.Gonzalez@floridacrystals.com)

Matthew Capone, Osceola Farms Company (Matthew.Capone@floridacrystals.com)

David Buff, P.E., Golder Associates, Inc. (dbuff@golder.com)

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Air Program Administrator, Southeast District: (sed.air@dep.state.fl.us)

Laxmana Tallam, Palm Beach County Health Department (Laxmana.Tallam@flhealth.gov)

EPA Region 4 NSR/PSD: (NSRSubmittals@epa.gov)

Lynn Searce, DEP OPC: (lynn.searce@dep.state.fl.us)

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to Section 120.52(7), Florida Statutes, with the designated agency clerk, receipt of which is hereby acknowledged.

SECTION 1. GENERAL INFORMATION

FACILITY DESCRIPTION

The existing facility consists of the following emissions units.

Facility ID No. 0990019	
ID No.	Emission Unit Description
002	Mill Boiler No. 2
003	Mill Boiler No. 3
004	Mill Boiler No. 4
005	Mill Boiler No. 5
006	Mill Boiler No. 6
007	Lime Silo
009	Bagasse Handling System (Sugarcane Processing Facility)
010	Emergency Reciprocating Internal Combustion Engine (RICE) – Fire Pump AG Shop
011	Emergency RICE – Sugar Mill Generator
025	Surface Coating Operations

PROPOSED PROJECT

Currently, the five boilers are permitted to operate commercially for up to 160 days (3,840 hours) per crop season from October 2 through April 30. Additionally, the mill has a steam production cap of 17,280,000 pounds of steam per day, as a 24-hour block average, over all boilers. This project removes the 160-day (3,840 hours) restriction and the October-April restriction on the operation of the boilers. Instead, they are replaced with an annual cap on steam production across the boilers. The cap is 2,626,560,000 pounds of steam per 12-month period, rolled monthly. This is 5% less than the case where 17,280,000 pounds of steam is produced per day for 160 days.

This project affects the following emissions units.

Facility ID No. 0990019	
ID No.	Emission Unit Description
002	Mill Boiler No. 2
003	Mill Boiler No. 3
004	Mill Boiler No. 4
005	Mill Boiler No. 5
006	Mill Boiler No. 6

FACILITY REGULATORY CLASSIFICATION

- The facility is a major source of hazardous air pollutants (HAP).
- The facility does not operate units subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility is a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C.
- The facility is a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: The permitting authority for this project is the Office of Permitting and Compliance in the Division of Air Resource Management of the Department of Environmental Protection (Department). The Office of Permitting and Compliance mailing address is 2600 Blair Stone Road (MS #5505), Tallahassee, Florida 32399-2400. All documents related to applications for permits to operate an emissions unit shall be submitted to the Department's South District at: 2295 Victoria Avenue, Suite 364, P.O. Box 2549, Fort Myers, Florida 33902-2549. The telephone number for the South District is 239-344-5600.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Palm Beach County Health Department at: 800 Clematis Street, West Palm Beach, Florida 33401. The telephone number for the Health Department is 561-837-5900.
3. Appendices: The following Appendices are attached as a part of this permit: Appendix A (Citation Formats and Glossary of Common Terms); Appendix B (General Conditions); Appendix C (Common Conditions); and Appendix D (Common Testing Requirements).
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. Construction and Expiration. The expiration date shown on the first page of this permit provides time to complete the physical construction activities authorized by this permit, complete any necessary compliance testing, and obtain an operation permit. Notwithstanding this expiration date, all specific emissions limitations and operating requirements established by this permit shall remain in effect until the facility or emissions unit is permanently shut down. For good cause, the permittee may request that a permit be extended. Pursuant to Rule 62-4.080(3), F.A.C., such a request shall be submitted to the Permitting Authority in writing before the permit expires. [Rules 62-4.070(3) & (4), 62-4.080 & 62-210.300(1), F.A.C.]
8. 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.]

SECTION 2. ADMINISTRATIVE REQUIREMENTS

9. Application for Title V Permit: This permit authorizes construction of the permitted emissions units and initial operation to determine compliance with Department rules. A Title V air operation permit is required for regular operation of the permitted emissions unit. The permittee shall apply for a Title V air operation permit at least 90 days prior to expiration of this permit, but no later than 180 days after commencing operation. To apply for a Title V operation permit, the applicant shall submit the appropriate application form, compliance test results, and such additional information as the Department may by law require. The application shall be submitted to the appropriate Permitting Authority with copies to the Compliance Authority. [Rules 62-4.030, 62-4.050 and Chapter 62-213, F.A.C.]
10. Actual Emissions Reporting: This permit is based on an analysis that compared baseline actual emissions with projected actual emissions and avoided the requirements of subsection 62-212.400(4) through (12), F.A.C. for several pollutants. Therefore, pursuant to Rule 62-212.300(1)(e), F.A.C., the permittee is subject to the following monitoring, reporting and recordkeeping provisions.
- a. The permittee shall monitor the emissions of any PSD pollutant that the Department identifies could increase as a result of the construction or modification and that is emitted by any emissions unit that could be affected; and, using the most reliable information available, calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of 5 years following resumption of regular operations after the change. Emissions shall be computed in accordance with the provisions in Rule 62-210.370, F.A.C., which are provided in Appendix C of this permit.
 - b. The permittee shall report to the Department within 60 days after the end of each calendar year during the 5-year period setting out the unit's annual emissions during the calendar year that preceded submission of the report. The report shall contain the following:
 - 1) The name, address and telephone number of the owner or operator of the major stationary source;
 - 2) The annual emissions calculations pursuant to the provisions of 62-210.370, F.A.C., which are provided in Appendix C of this permit;
 - 3) If the emissions differ from the preconstruction projection, an explanation as to why there is a difference; and
 - 4) Any other information that the owner or operator wishes to include in the report.
 - c. The information required to be documented and maintained pursuant to subparagraphs 62-212.300(1)(e)1 and 2, F.A.C., shall be submitted to the Department, which shall make it available for review to the general public.

For this project, the permit requires the annual reporting of actual *nitrogen oxides* (NO_x) emissions for the following units: *Mill Boiler Nos. 2 through 6 (EU Nos. 002 through 006)*

[Application 0990019-020-AC; and Rules 62-212.300(1)(e) and 62-210.370, F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Mill Boiler Nos. 2 through 6 (EU Nos. 002 through 006)

This section of the permit addresses the following emissions units.

EU No.	Emission Unit Description
002	Mill Boiler No. 2
003	Mill Boiler No. 3
004	Mill Boiler No. 4
005	Mill Boiler No. 5
006	Mill Boiler No. 6

Mill Boiler No. 2: This emissions unit is an inclined grate 280 MMBtu/hr boiler. The maximum steam capacity is 140,000 lbs/hr. Two wet impingement scrubbers (Joy Turbulaire Type D-48) control particulate matter emissions. Each scrubber exhausts through a separate 90' stack. Each stack's actual volumetric flow rate is 48,000 acfm, the exit diameter is 5 feet and the exit temperature is 156 °F. This boiler's initial startup date was 10/01/65.

Mill Boiler No. 3: This emissions unit is an inclined grate 292 MMBtu/hr boiler fired by bagasse, No. 6 fuel oil, and wood chips. Particulate matter emissions from the unit are controlled by a single wet impingement scrubber (Joy Turbulaire Type D Size 90). The maximum steam capacity of the boiler is 150,000 lb/hr. The scrubber is vented through a single 90' stack with a nominal 91% control efficiency. The stack has an actual volumetric flow rate of 90,000 acfm, an exit diameter of 6.25 feet and an exit temperature of 147 °F. The initial startup date was 10/31/61.

Mill Boiler No. 4: Boiler No. 4 is a horseshoe 280 MMBtu/hr boiler. The maximum steam capacity is 140,000 lb/hr. Two single stack wet impingement scrubbers (Joy Turbulaire Type D-48) control particulate matter emissions. The two scrubbers exhaust through a common 90' stack. The stack's actual volumetric flow rate is 101,000 acfm and the exit temperature is 154 °F. The initial startup date was 10/31/62.

Mill Boiler No. 5: Boiler No. 5 is a horseshoe 330 MMBtu/hr boiler. The maximum steam capacity is 165,000 lbs/hr. Two wet impingement scrubbers (Joy Turbulaire Type D-40) control particulate matter emissions. Each scrubber exhausts to a separate 90' stack. The actual volumetric flow rate is 55,000 acfm for the west stack and 63,000 acfm for the east stack. The stacks' exit diameter is 5 feet and exit temperature is 150 °F. The startup date for the boiler was 11/1/1978.

Mill Boiler No. 6: This emissions unit is a traveling grate 379 MMBtu/hr boiler fired by bagasse, No. 6 fuel oil, and/or wood chips. Particulate matter emissions from the unit are controlled by a single wet impingement scrubber (Joy Turbulaire Type D Size 90). The scrubber exhausts through a single 90' stack with an actual volumetric flow rate of 101,000 acfm and an exit temperature of 151 °F.

The five boilers are fueled primarily with bagasse, but also burn No. 6 fuel oil, wood chips, firewood, lumber and diesel fuel.

PERFORMANCE RESTRICTIONS

1. Previous Applicable Conditions: The steam cap given in **Specific Condition 2** below replaces all earlier conditions from pervious permits AC 50144971 and AC 50-144972 (PSD-FL-134, previously PSD-FL-080 for Boiler No. 6) with regard to allowable days of operation, hours of operation and the harvesting season restrictions as they relate to Boiler Nos. 2 through 6. [Application No. 0990019-020-AC]
2. Steam Production: Total steam production from all boilers shall not exceed 2,626,560,000 pounds per consecutive 12-month period, rolled monthly. The starting month for the 12-month period, rolled monthly steam cap for the Osceola Farms boilers shall begin 11 months prior to the month that this permit goes final. [Application No. 0990019-020-AC; Rule 62-210.200(PTE), F.A.C.]

{Permitting Note: The normal crop season typically consists of 160 operating days (3840 hours). Normally, the boilers do not operate commercially during a period from May 1 through October 1.}

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Mill Boiler Nos. 2 through 6 (EU Nos. 002 through 006)

3. Days and Hours of Operation: The hours of operation are constrained by the facility-wide steam cap stipulated in **Specific Condition 2**, of 2,626,560,000 pounds of steam per consecutive 12-month period, rolled monthly.
[Application No. 0990019-020-AC; Rule 62-210.200(PTE), F.A.C.; Permit Nos. AO50-120592, amended 11/18/88, AO50-203680, and A050-165626]

MONITORING AND RECORDKEEPING REQUIREMENTS

4. Monitoring of Steam Production:
- The permittee shall monitor and record the daily steam production rates of the sugar mill boilers (24-hour block total, 8:00 a.m. to 8:00 a.m.) for each day of operation. [Rule 62-213.440(1)(b), F.A.C.]
 - Within 10 days following each calendar month, the permittee shall calculate and record the total steam production from the boilers for the month and the new 12-month total steam production. [Application No. 0990019-020-AC; Rule 62-213.440(1)(b), F.A.C.]

RECORDS AND REPORTS

5. Reporting of Steam Production Exceedances: Any exceedance of the limitation in **Specific Condition 2** shall be reported to the Department with one business day after the occurrence of the exceedance. [Application No. 0990019-020-AC; Permit Nos. PSD-FL-134/AC50-144971/AC50-144972]