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PERMITTEE

Ardent Mills, LLC
110 South Nebraska Avenue
Tampa, FL 33602

Authorized Representative:
Trey Grant, Plant Manager

Air Permit No. 0570251-012-AF
Effective Date: September 14, 2017
Renewal Application Due Date: July 16, 2022
Expiration Date: September 14, 2022

Tampa Flour Mill Facility
Hillsborough County, Florida

PROJECT

This is the final Federally Enforceable State Operation Permit (FESOP), which authorizes the operation of Ardent Mills, LLC, Tampa Flour Mill Facility, which is a flour mill facility (Standard Industrial Classification No. 2041). This FESOP is to renew FESOP No. 0570251-010-AF. The facility is located in Hillsborough County at 110 South Nebraska Avenue in Tampa, Florida. The UTM coordinates are Zone 17, 357.00 kilometers (km) East, and 3092.50 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.

Permitting Authority: Applications for air operation permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4 and 62-210 of the Florida Administrative Code (F.A.C.). The Permitting Authority responsible for making a permit determination for this project is the Environmental Protection Commission of Hillsborough County (EPC). The Permitting Authority's physical and mailing address is: 3629 Queen Palm Drive, Tampa, Florida 33619. The Permitting Authority's telephone number is 813/627-2600.

Petitions. A person whose substantial interests are affected by the proposed decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Legal Department of the EPC at 3629 Queen Palm Drive, Tampa, Florida 33619, Phone 813-627-2600, Fax 813-627-2602. Petitions filed by the applicant or any of the parties listed below must be filed within 14 days of receipt of this notice. Petitions filed by any other person must be filed within 14 days of receipt of this proposed action. A petitioner must mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Department's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner; the name, address and telephone number

FINAL AIR OPERATION PERMIT

of the petitioner’s representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner’s substantial interests will be affected by the agency determination; (c) A statement of how and when each petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate (e) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency’s proposed action; and, (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency’s proposed action. A petition that does not dispute the material facts upon which the permitting authority’s action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department’s final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the permitting authority on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation: Mediation is not available in this proceeding.

Effective Date: This permitting decision is final and effective on the date filed with the clerk of the Permitting Authority unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition pursuant to Rule 62-110.106, F.A.C., and the petition conforms to the content requirements of Rules 28-106.201 and 28-106.301, F.A.C. Upon timely filing of a petition or a request for extension of time, this action will not be effective until further order of the Permitting Authority.

Judicial Review: Any party to this permitting decision (order) has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Legal Department of the EPC at 3629 Queen Palm Drive, Tampa, Florida 33619, Phone 813-627-2600, Fax 813-627-2602 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.

Upon issuance of this final permit, any party to this permitting decision (order) has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Legal Department of the EPC at 3629 Queen Palm Drive, Tampa, Florida 33619, Phone 813-627-2600, Fax 813-627-2602, 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 Hillsborough County, Florida



Janet L. Dougherty
Executive Director

FINAL AIR OPERATION PERMIT

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 the date indicated below to the following persons.

Trey Grant - Ardent Mills, LLC (trey.grant@ardentmills.com)
Lynn Robinson, P.E. - SES, Inc. (lrobinson@sesfla.com)

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.



(Clerk)

9/14/17

(Date)

SECTION 1. GENERAL INFORMATION

FACILITY DESCRIPTION

Ardent Mills, LLC operates the Tampa Flour Mill Facility. Grain (wheat) is received by railcar and truck. Both are unloaded at their respective receiving pits. The grain is transferred to one of six steel grain receiving silos using enclosed bucket elevators, screw conveyors, and drag conveyors. The maximum receiving rate is 180 ton/hr. The grain is blended while being transferred to any of the ten blending silos. The blended grain is conveyed from storage to the two grain cleaning operations (Lines A and B) at a total rate of 45 ton/hr. The system is enclosed, allowing no emissions in the transfer operation. Particulate matter is sent along with the grain to the two grain cleaning systems where it is controlled by baghouses.

Grain Cleaning Operation

The grain cleaning operation consists of a series of machines to remove foreign materials from the grain prior to milling. The equipment includes millerators, disc separators, scourers, stoners, entoleters and mixing conveyors. The grain is transported between machines in enclosed bucket elevators, spouts and screw conveyors. The product from the grain cleaning operation is transported to temper bins where water is added to the grain to soften the bran coat. The softened grain is then transferred to the flour mills by enclosed bucket elevators and screw conveyors at the rate of 22.5 TPH for each system. Particulate emissions from the two grain cleaning operations are controlled by the following baghouses:

EU	Source Description	Baghouse	Maker/Model	ACFM
002	Cleaning – Line A	Baghouse A-2	Kice Metal Products Co./M96-6	7,800
003	Cleaning – Line A	Baghouse A-3	Kice Metal Products Co./M168-10	20,000
016	Cleaning – Line B/Millfeed	Baghouse A-19	Buhler-Miag/ASFB 88/10	15,375

Grinding Operation

Material cleaned from the grain is sent to a hammermill for grinding, then to the millfeed tank for storage. Emissions from the hammermill are controlled by:

EU	Source Description	Baghouse	Maker/Model	ACFM
004	Hammermill	Baghouse A-4	Kice Metal Products Co./R21-6	1,500

Flour Mills Operation

The cleaned grain is transferred to two flour mills, each with their own baghouses. Each flour mill consists of a series of equipment that grinds the grain and separates it into flour and millfeed (a mixture of bran, by-product from the cleaning operation and low-grade flour). The material is transported between equipment using enclosed spouting and negative and positive pneumatic conveying systems. The equipment includes scales, roller mills, sifters, purifiers and bran finishers. The high-grade flour from the flour mills are transported to bulk storage (12 silos) using positive pneumatic conveying systems. The total production rate is 33.75 ton/hr for flour and 11.25 ton/hr for the millfeed. The millfeed is sent to the millfeed tank, and subsequently to the truck and/or railcar loadout stations. Emissions from the millfeed tank and loadout are controlled by Baghouse A-19. Particulate emissions from the two grain milling operations are controlled by the following baghouses:

EU	Source Description	Baghouse	Maker/Model	ACFM
005	Milling – Line A	Baghouse A-5	Kice Metal Products Co./M144 6/7/9/10	12,000
006	Milling – Line A	Baghouse A-6	Kice Metal Products Co./M144 6/7/9/10	12,000
007	Milling – Line A	Baghouse A-7	Kice Metal Products Co./R88/10	10,000
015	Milling – Line B	Baghouse A-21	Buhler-Miag/ASFB 88/10	16,000
017	Milling – Line B	Baghouse A-20	Buhler-Miag/ASFB 64/10	12,800

SECTION 1. GENERAL INFORMATION

Storage/Packer/Loadout Operation

The flour is transferred from bulk storage to the blending plant, consisting of eight blend bins with variable screw feeders to blend different types of flours. Flour is transferred from each bin via screw and pneumatic conveyors to sifters for removal of foreign materials, to scales for weighing and through entoleters to kill any insect eggs. The maximum flour transfer rate is 90 ton/hr. From here the flour is conveyed pneumatically to a packer (bagging) system, or to truck or railcar loadout stations. The maximum loadout rate to the packer (bagging) system, each of the two truck stations, the railcar station is 30 ton/hr each. Emissions from the packer and railcar loadout are controlled by Baghouse A-22. Particulate emissions from the truck loadout operations are controlled by Baghouse A-24.

EU	Source Description	Baghouse	Maker/Model	ACFM
014	Truck Loadout	Baghouse A-24	Kice Metal Products Co./R21-10	3,000
018	Storage/Packer/Loadout	Baghouse A-22	Kice Metal Products Co./M120/10	14,000

The existing facility consists of the following emissions units (EU).

EU No.	Emission Unit Description
002	Grain Cleaning (Line A) - Baghouse A-2
003	Grain Cleaning (Line A) - Baghouse A-3
004	Hammermill - Baghouse A-4
005	Grain Milling (Line A) - Baghouse A-5
006	Grain Milling (Line A) - Baghouse A-6
007	Grain Milling (Line A) - Baghouse A-7
014	Truck Loadout Bin Loading/Truck Loadout - Baghouse A-24
015	Grain Milling (Line B) - Baghouse A-21
016	Grain Cleaning (Line B)/Millfeed - Baghouse A-19
017	Grain Milling (Line B) - Baghouse A-20
018	Flour Processing (Storage/Packer/Loadout) - Baghouse A-22

APPLICABLE REGULATIONS

A summary of applicable regulations is shown in the following table.

Regulation	EU No(s).
<i>State Rule Citations</i>	
Rule 62-296.711(2), F.A.C, Material Handling Operations	002-007, 014-018

FACILITY REGULATORY CLASSIFICATION

- The facility is not 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 not a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C.
- The facility is not a major stationary source in accordance with Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

FW1. Permitting Authority: The permitting authority for this project is the Environmental Protection Commission of Hillsborough County (EPC). The Permitting Authority's mailing address is: 3629 Queen Palm Dr., Tampa, FL 33619. All documents related to applications for permits to operate an emissions unit shall be submitted to the Environmental Protection Commission of Hillsborough County.

FW2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Environmental Protection Commission of Hillsborough County at: 3629 Queen Palm Drive, Tampa, FL 33619.

FW3. 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).

FW4. 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.

FW5. 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.]

FW6. Modifications: No new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the EPC. 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.]

FW7. Circumvention. No owner or operator of an emissions unit subject to the requirements of Rules 62-296.701 through 62-296.712, F.A.C., establishing maximum concentrations of emissions of particulate matter in the exhaust gas from the emissions unit, shall circumvent the provisions of an applicable emission limitation by increasing the volume of gas in any exhaust or group of exhausts for the purpose of reducing the stack gas concentration. This includes allowing dilution air to enter the system through leaks, open vents, or similar means. [Rule 62-296.700(5), F.A.C.]

FW8. Renewal. Prior to 60 days before the expiration date of this permit, the permittee shall apply for a renewal of the permit. A renewal application shall be timely and sufficient. If the application is submitted prior to 60 days before expiration of the permit, it will be considered timely and sufficient. If the renewal application is submitted at a later date, it will not be considered timely and sufficient unless it is submitted and made complete prior to the expiration of the operation permit. When the application for renewal is timely and sufficient, the existing permit shall remain in effect until the renewal application has been finally acted upon by the Environmental Protection Commission of Hillsborough County. [Rule 62-4.090, F.A.C.]

FW9. Annual Operating Report (AOR): The information required by the Annual Operating Report for Air Pollutant Emitting Facility (DEP Form No. 62-210.900(5)) shall be submitted by April 1 of each year, for the previous calendar year, to the Environmental Protection Commission of Hillsborough County. All synthetic non-Title V sources shall submit a completed DEP Form 62-210.900(5) unless the annual operating report is submitted using the DEP's electronic annual operating report software. Emissions shall be computed in accordance with the provisions of subsection 62-210.370(2), F.A.C. [Rule 62-210.370(3), F.A.C.]

{Permitting Note: Resources to help you complete your AOR are available on the electronic AOR (EAOR) website at: <http://www.dep.state.fl.us/air/emission/eaor>. If you have questions or need assistance after reviewing the information posted on the EAOR website, please contact the Department by phone at (850) 717-9000 or email at eaor@dep.state.fl.us.}

SECTION 2. ADMINISTRATIVE REQUIREMENTS

FW10. The use of property, facilities, equipment, processes, products, or compounds, or the commission of paint overspraying or any other act, that causes or materially contributes to a public nuisance is prohibited, pursuant to the Hillsborough County Environmental Protection Act, Section 16, Chapter 84-446, Laws of Florida, as Amended.

FW11. At least 15 days prior to the date on which each required emissions test is to begin, the permittee shall notify the Air Compliance Section of the Environmental Protection Commission of Hillsborough County (EPC). The notification shall include the date, time, place of each such test, Facility ID Number, Emission Unit ID Number(s) and description(s), Emission Point Number(s) and description(s), test method(s), pollutant(s) to be tested, along with the name and telephone number of the person who will be responsible for conducting such test(s) for the owner or operator. If a scheduled emissions test needs to be re-scheduled, the owner or operator shall submit to the Air Compliance Section of the EPC a revised notification at least seven days prior to the re-scheduled emissions test date or arrange a re-scheduled test date with the Air Compliance Section of the EPC by mutual agreement. [Appendix D, Rule 62-297.310(9), F.A.C.]

FW12. When the Environmental Protection Commission of Hillsborough County (EPC) after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a rule or in a permit issued pursuant to those rules is being violated, it shall require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit, unless the EPC obtains other information sufficient to demonstrate compliance. The owner or operator of the emissions unit shall provide a report on the results of said tests to the EPC in accordance with the provisions of subsection 62-297.310(10), F.A.C. [Rule 62-297.310(8)(c), F.A.C.]

FW13. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Rule 62-296.320, F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alterations, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling. Reasonable precautions include, but are not limited to, the following: [Rule 62-296.320(4)(c), F.A.C.]

- A) Removal of particulate matter like flour or grain from paved areas and from work areas to prevent particulate from becoming airborne.
- B) Inspection of storage, transfer and cleaning/milling systems to repair all leaks to prevent particulate emissions.
- C) Avoid excessive pneumatic pressures in process and control equipment, including material loading/unloading lines, to prevent rupture and leakage.

FW14. If the permittee wishes to transfer this permit to another owner, an "Application for Transfer of Permit" (DEP Form 62-210.900(7)) shall be submitted, in duplicate, to the Environmental Protection Commission of Hillsborough County within 30 days after the sale or legal transfer of the permitted facility. [Rule 62-4.120, F.A.C.]

SUBSECTION A. EMISSIONS UNIT SPECIFIC CONDITIONS

Flour Processing Operation

The specific conditions in this section apply to the following emissions units.

EU No.	Emission Unit Description
002	Grain Cleaning (Line A) - Baghouse A-2
003	Grain Cleaning (Line A) - Baghouse A-3
004	Hammermill - Baghouse A-4
005	Grain Milling (Line A) - Baghouse A-5
006	Grain Milling (Line A) - Baghouse A-6
007	Grain Milling (Line A) - Baghouse A-7
014	Truck Loadout Bin Loading/Truck Loadout - Baghouse A-24
015	Grain Milling (Line B) - Baghouse A-21
016	Grain Cleaning (Line B)/Millfeed - Baghouse A-19
017	Grain Milling (Line B) - Baghouse A-20
018	Flour Processing (Storage/Packer/Loadout) - Baghouse A-22

A.1. As requested by the permittee, in order to limit the potential to emit and establish the facility as a synthetic minor source for particulate matter (PM), the maximum allowable PM emissions (in gr/dscf and tons/yr) and visible emissions (VE) for each emission unit shall not exceed the following: [Rules 62-210.300 and 62-296.711(2)(a), F.A.C. and Permit No. 0570251-002/010-AC/AF]

EU No.	BH No.	BH (dscfm)	PM (gr/dscf)	PM (TPY)	VE Opacity
002	Baghouse A-2	7,467	0.025	6.64	5%
003	Baghouse A-3	19,146	0.020	13.61	5%
004	Baghouse A-4	1,436	0.025	1.28	5%
005	Baghouse A-5	11,488	0.020	8.17	5%
006	Baghouse A-6	11,488	0.020	8.17	5%
007	Baghouse A-7	9,573	0.025	8.51	5%
014	Baghouse A-24	2,915	0.025	2.59	5%
015	Baghouse A-21	15,317	0.025	13.61	5%
016	Baghouse A-19	14,719	0.025	13.08	5%
017	Baghouse A-20	12,254	0.025	10.89	5%
018	Baghouse A-22	13,402	0.020	9.53	5%
Facility-wide Total				96.1	

A.2. To ensure compliance with allowable emission limits in Specific Condition No. A.1., the following shall apply for any 12 consecutive month period: [Rule 62-4.070(3),F.A.C. and Permit Nos. 0570251-002/010-AC/AF]

- A) The hours of operation of each emission unit shall not exceed 8,296 hours.
- B) No more than 374,000 tons of grain shall be processed facility-wide.

A.3. In order to ensure compliance with the emission standards of Specific Condition No. A.1., the following shall apply: [Rule 62-4.070(3),F.A.C. and Permit Nos. 0570251-002/010-AC/AF]

- A) The maximum allowable material handling rates shall be:

SUBSECTION A. EMISSIONS UNIT SPECIFIC CONDITIONS

Flour Processing Operation

EU No.	BH No.	Material	TPH
002	Baghouse A-2	Wheat	22.5
003	Baghouse A-3	Wheat	22.5
004	Baghouse A-4	Wheat	22.5
005	Baghouse A-5	Wheat	22.5
006	Baghouse A-6	Wheat	22.5
007	Baghouse A-7	Wheat	22.5
014	Baghouse A-24	Flour	30
015	Baghouse A-21	Wheat	22.5
016	Baghouse A-19	Wheat	22.5
017	Baghouse A-20	Wheat	22.5
018	Baghouse A-22	Flour	90

B) All dust laden air generated at any emission unit shall be vented back to the associated control equipment.

A.4. Test each emission unit (EU) for visible emissions annually, once per calendar year (January 1 – December 31), and submit two copies of the test data to the Air Compliance Section of the Air Management Division of the Environmental Protection Commission (EPC) of Hillsborough County within 45 days of such testing. Visible emission testing for EU 014 shall include testing of two separate emission points: 1) Baghouse A-24 exhaust; and 2) Truck loading spouts to trucks. Testing procedures shall be consistent with the requirements of Rule 62-297.310, F.A.C., and visible emissions shall be recorded from the point of highest observed opacity for the emission unit. [Rules 62-297.310 and 62-4.070(3), F.A.C.]

A.5. Compliance with the emission limitations of Specific Condition No. A.1. shall be determined using EPA Methods 1, 2, 4, 5, and 9 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 62-297, F.A.C. The EPA Method 9 tests shall be at least thirty (30) minutes in duration and shall include the point of highest opacity. Except for the special particulate matter stack tests required by Permit Condition No. FW 12, a visible emissions test indicating no visible emissions (5 percent opacity) may be submitted in lieu of a particulate stack test where emissions are controlled by a baghouse. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Rule 62-297, F.A.C. and 40 CFR 60, Appendix A. [Rules 62-296.320(4)(b)4., 62-296.711(3), and 62-4.070(3), F.A.C.]

A.6. Testing of emissions shall be conducted with the sources operating at capacity. Capacity is defined as 90-100% of rated capacity of the material handling rates specified in Specific Condition No. A.3.A). Testing of each emission unit shall occur while all processes that are controlled by the corresponding baghouse are in operation and operating at capacity. Testing of the baghouse controlling EU014 shall occur during simultaneous truck loading at rated capacity of 30 ton/hr and material transfer to the truck loading bins, since both operations are controlled by the same pollution control device. Observation of the baghouse exhaust and the truck loading spouts are both required for EU 014 as specified in Specific Condition No. A.4. If it is impracticable to test at capacity, then the source may be tested at less than capacity; in this case subsequent source operation is limited to 110% of the test load until a new test is conducted. Once the unit is so limited, then operation at higher capacities is allowed for no more than fifteen days for purposes of additional compliance testing to regain the rated capacity in the permit, with prior notification to the EPC. Failure to submit the input rates, the air pressure drop across each baghouse, and actual operating conditions may invalidate the test. [Rule 62-4.070(3), F.A.C. and 62-297.310(2), F.A.C.]

A.7. In order to ensure compliance with the limitations in this permit, the following monthly records shall be maintained and kept on-site for at least the previous three (3) years and made available for inspection by staff of the Environmental Protection Commission of Hillsborough County upon request: [Rules 62-4.160(14) and 62-4.070(3), F.A.C.]

SUBSECTION A. EMISSIONS UNIT SPECIFIC CONDITIONS

Flour Processing Operation

- A) Grain processed at the facility in tons
- B) Hours of operation of each emission unit
- C) A rolling twelve consecutive month total of A) and B) above.

A.8. The permittee shall operate and maintain a measuring device to determine the air pressure differential across the control equipment and the air cleaning pressure listed in this permit within 10 percent accuracy. [Rule 62-4.070(3), F.A.C.]

A.9. The permittee shall comply with the requirements of the Operation and Maintenance Plan for Particulate Control as described below for each emission control equipment (baghouse). [Rule 62-296.700, F.A.C.]

BAGHOUSE A-2 (EU 002)

Process Parameters:

1. Source Designators: Baghouse A-2
2. Baghouse Manufacturer: Kice Industries, Inc.
3. Model Name and Number: M96-6
4. Design Flow Rate: 7,800 ACFM
5. Efficiency Rating at Design Capacity: 99.99%
6. Pressure Drop: 0-6 in. water
7. Air to Cloth Ratio: 11.5:1
8. Bag Weave: Felt
9. Bag Material: Polyester
10. Bag Cleaning Conditions, Pulse Air Pressure: 13 psi
11. Gas Temperatures: Inlet and outlet 75° F
12. Stack Height Above Ground: 73 ft.
13. Exit Diameter: 20 in.
14. Exit Velocity: 60 fps
15. Water Vapor Content: 3%
16. Process Controlled by Collection System: Grain Cleaning
17. Material Handling Rate: 22.5 tons per hour
18. Operating Schedule: 8,296 hours/12 consecutive month period

BAGHOUSE A-3 (EU 003)

Process Parameters:

1. Source Designators: Baghouse A-3
2. Baghouse Manufacturer: Kice Industries, Inc.
3. Model Name and Number: M168-10
4. Design Flow Rate: 20,000 ACFM
5. Efficiency Rating at Design Capacity: 99.99%
6. Pressure Drop: 0-6 in. water
7. Air to Cloth Ratio: 10.2:1
8. Bag Weave: Felt

SUBSECTION A. EMISSIONS UNIT SPECIFIC CONDITIONS

Flour Processing Operation

9. Bag Material: Polyester
10. Bag Cleaning Conditions, Pulse Air Pressure: 13 psi
11. Gas Temperatures: Inlet and outlet 75° F
12. Stack Height Above Ground: 15 ft.
13. Exit Diameter: 24.8 in. x 37.3 in.
14. Exit Velocity: 52 fps
15. Water Vapor Content: 3%
16. Process Controlled by Collection System: Grain Cleaning
17. Material Handling Rate: 22.5 tons per hour
18. Operating Schedule: 8,296 hours/12 consecutive month period

BAGHOUSE A-4 (EU 004)

Process Parameters:

1. Source Designators: Baghouse A-4
2. Baghouse Manufacturer: Kice Industries, Inc.
3. Model Name and Number: R21-6
4. Design Flow Rate: 1,500 ACFM
5. Efficiency Rating at Design Capacity: 99.99%
6. Pressure Drop: 0-6 in. water
7. Air to Cloth Ratio: 10.1:1
8. Bag Weave: Felt
9. Bag Material: Polyester
10. Bag Cleaning Conditions, Pulse Air Pressure: 13 psi
11. Gas Temperatures: Inlet and outlet 75° F
12. Stack Height Above Ground: 35 ft.
13. Exit Diameter: 12 in.
14. Exit Velocity: 39 fps
15. Water Vapor Content: 3%
16. Process Controlled by Collection System: Hammermill
17. Material Handling Rate: 11.25 tons per hour
18. Operating Schedule: 8,296 hours/12 consecutive month period

BAGHOUSE A-5 (EU 005)

Process Parameters:

1. Source Designators: Baghouse A-5
2. Baghouse Manufacturer: Kice Industries, Inc.
3. Model Name and Number: M144 6/7/9/10
4. Design Flow Rate: 12,000 ACFM
5. Efficiency Rating at Design Capacity: 99.99%
6. Pressure Drop: 0-6 in. water
7. Air to Cloth Ratio: 9.85:1
8. Bag Weave: Felt
9. Bag Material: Polyester

SUBSECTION A. EMISSIONS UNIT SPECIFIC CONDITIONS

Flour Processing Operation

10. Bag Cleaning Conditions, Pulse Air Pressure: 13 psi
11. Gas Temperatures: Inlet and outlet 75° F
12. Stack Height Above Ground: 70 ft.
13. Exit Diameter: 24 in.
14. Exit Velocity: 64 fps
15. Water Vapor Content: 3%
16. Process Controlled by Collection System: Grain Milling
17. Material Handling Rate: 22.5 tons per hour
18. Operating Schedule: 8,296 hours/12 consecutive month period

BAGHOUSE A-6 (EU 006)

Process Parameters:

1. Source Designators: Baghouse A-6
2. Baghouse Manufacturer: Kice Industries, Inc.
3. Model Name and Number: M144 6/7/9/10
4. Design Flow Rate: 12,000 ACFM
5. Efficiency Rating at Design Capacity: 99.99%
6. Pressure Drop: 0-6 in. water
7. Air to Cloth Ratio: 9.85:1
8. Bag Weave: Felt
9. Bag Material: Polyester
10. Bag Cleaning Conditions, Pulse Air Pressure: 13 psi
11. Gas Temperatures: Inlet and outlet 75° F
12. Stack Height Above Ground: 70 ft.
13. Exit Diameter: 24 in.
14. Exit Velocity: 64 fps
15. Water Vapor Content: 3%
16. Process Controlled by Collection System: Grain Milling
17. Material Handling Rate: 22.5 tons per hour
18. Operating Schedule: 8,296 hours/12 consecutive month period

BAGHOUSE A-7 (EU 007)

Process Parameters:

1. Source Designators: Baghouse A-7
2. Baghouse Manufacturer: Kice Industries, Inc.
3. Model Name and Number: R88/10
4. Design Flow Rate: 10,000 ACFM
5. Efficiency Rating at Design Capacity: 99.99%
6. Pressure Drop: 0-6 in. water
7. Air to Cloth Ratio: 9.77:1
8. Bag Weave: Felt
9. Bag Material: Polyester
10. Bag Cleaning Conditions, Pulse Air Pressure: 13 psi
11. Gas Temperatures: Inlet and outlet 75° F

SUBSECTION A. EMISSIONS UNIT SPECIFIC CONDITIONS

Flour Processing Operation

12. Stack Height Above Ground: 40 ft.
13. Exit Diameter: 24.3 in. x 30.5 in.
14. Exit Velocity: 39 fps
15. Water Vapor Content: 3%
16. Process Controlled by Collection System: Grain Milling
17. Material Handling Rate: 22.5 tons per hour
18. Operating Schedule: 8,296 hours/12 consecutive month period

BAGHOUSE A-19 (EU 016)

Process Parameters:

1. Source Designators: Baghouse A-19
2. Baghouse Manufacturer: Buhler-Miag, Inc.
3. Model Name and Number: ASFB 88/10, Type A
4. Design Flow Rate: 15,375 ACFM
5. Efficiency Rating at Design Capacity: 99.99%
6. Pressure Drop: 0-6 inches water
7. Air to Cloth Ratio: 12.0:1
8. Bag Weave: Felt
9. Bag Material: Dacron
10. Bag Cleaning Conditions, Pulse Air Pressure: 7.5 psi
11. Gas Temperatures: Inlet 77° F and outlet 77° F
12. Stack Height Above Ground: 82 ft.
13. Exit Diameter: 30.99 ft.
14. Exit Velocity: 48.9 fps
15. Water Vapor Content: 3%
16. Process Controlled by Collection System: Grain Cleaning
17. Material Handling Rate: 22.5 tons per hour
18. Operating Schedule: 8,296 hours/12 consecutive month period

BAGHOUSE A-20 (EU 017)

Process Parameters:

1. Source Designators: Baghouse A-20
2. Baghouse Manufacturer: Buhler-Miag, Inc.
3. Model Name and Number: ASFB 64/10, Type A
4. Design Flow Rate: 12,800 ACFM
5. Efficiency Rating at Design Capacity: 99.99%
6. Pressure Drop: 0-6 inches water
7. Air to Cloth Ratio: 17.2:1
8. Bag Weave: Felt
9. Bag Material: Dacron
10. Bag Cleaning Conditions, Pulse Air Pressure: 7.5 psi
11. Gas Temperatures: Inlet 77° F and outlet 77° F
12. Stack Height Above Ground: 82 ft.

SUBSECTION A. EMISSIONS UNIT SPECIFIC CONDITIONS

Flour Processing Operation

13. Exit Diameter: 28.5 in. x 21.75 in.
14. Exit Velocity: 50.7 fps
15. Water Vapor Content: 3%
16. Process Controlled by Collection System: Grain Milling
17. Material Handling Rate: 22.5 tons per hour
18. Operating Schedule: 8,296 hours/12 consecutive month period

BAGHOUSE A-21 (EU 015)

Process Parameters:

1. Source Designators: Baghouse A-21
2. Baghouse Manufacturer: Buhler-Miag, Inc.
3. Model Name and Number: ASFB 88/10, Type A
4. Design Flow Rate: 16,000 ACFM
5. Efficiency Rating at Design Capacity: 99.99%
6. Pressure Drop: 0-6 inches water
7. Air to Cloth Ratio: 112.5:1
8. Bag Weave: Felt
9. Bag Material: Dacron
10. Bag Cleaning Conditions, Pulse Air Pressure: 7.5 psi
11. Gas Temperatures: Inlet 77° F and outlet 77° F
12. Stack Height Above Ground: 82 ft.
13. Exit Diameter: 33.75 in. x 23.75 in.
14. Exit Velocity: 48.8 fps
15. Water Vapor Content: 3%
16. Process Controlled by Collection System: Grain Milling
17. Material Handling Rate: 22.5 tons per hour
18. Operating Schedule: 8,296 hours/12 consecutive month period

BAGHOUSE A-22 (EU 018)

Process Parameters:

1. Source Designators: Baghouse A-22
2. Baghouse Manufacturer: Kice Industries, Inc.
3. Model Name and Number: M120-10
4. Design Flow Rate: 14,000 ACFM
5. Efficiency Rating at Design Capacity: 99.99%
6. Pressure Drop: 0-6 inches water
7. Air to Cloth Ratio: 10:1
8. Bag Weave: 12 oz. felt
9. Bag Material: 12 oz. felted polyester
10. Bag Cleaning Conditions, Pulse Air Pressure: 13 psi
11. Gas Temperatures: Inlet 75° F and outlet 75° F
12. Stack Height Above Ground: 4 ft.
13. Exit Diameter: 2.57 ft.

SUBSECTION A. EMISSIONS UNIT SPECIFIC CONDITIONS

Flour Processing Operation

14. Exit Velocity: 44.92 fps
15. Water Vapor Content: 3%
16. Process Controlled by Collection System: Flour/Storage/Packer/Loadout
17. Material Handling Rate: 90 tons per hour
18. Operating Schedule: 8,296 hours/12 consecutive month period

BAGHOUSE A-24 (EU 014)

Process Parameters:

1. Source Designators: Baghouse A-24
2. Baghouse Manufacturer: Kice Industries, Inc.
3. Model Name and Number: R-21-10
4. Design Flow Rate: 3,000 ACFM
5. Efficiency Rating at Design Capacity: 99.99%
6. Pressure Drop: 0-6 in. water
7. Air to Cloth Ratio: 8.16:1
8. Bag Weave: 12 oz. Felt per square yard
9. Bag Material: 12 oz. felted polyester
10. Bag Cleaning Conditions, Pulse Air Pressure: 13 psi
11. Gas Temperatures: Inlet 80° F and outlet 80° F
12. Stack Height Above Ground: 33 ft.
13. Exit Diameter: 3.8 ft.
14. Exit Velocity: 24 fps
15. Water Vapor Content: 3%
16. Process Controlled by Collection System: Flour Processing/Transfer
17. Material Handling Rate: 30 tons per hour
18. Operating Schedule: 8,296 hours/12 consecutive month period

All Baghouses:

The following observations, checks, and operations apply to this source and shall be conducted on the schedule specified:

Daily

1. Check and record pressure drop (when in operation).
2. Observe stack (visual).
3. Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag cleaning systems, etc.).
4. Note any unusual occurrence in the process being ventilated.
5. Observe all indicators on control panel.
6. Check and record cleaning air pressure.
7. Assure that dust is being removed from system.

Weekly

1. Inspect screw conveyor and airlock bearings for lubrication.

SUBSECTION A. EMISSIONS UNIT SPECIFIC CONDITIONS

Flour Processing Operation

2. Check packing glands.
3. Operate all damper valves (isolation, by-pass, etc.).
4. Check bag cleaning sequence to see that all valves are opening and closing properly.
5. Spot check bag tension inside bag collectors.
6. Check pressure drop indicating equipment for plugged lines.
7. Check inlet filter on reverse air blower (if applicable).

Monthly

1. Check cleaning mechanism moving parts.
2. Inspect fan for corrosion and material build-up.
3. Check all drive belts and chains for wear and tension.
4. Check all hoses and clamps.
5. Check accuracy of all indicating equipment.
6. Inspect housing for corrosion.

Quarterly

1. Inspect baffle plate for wear.
2. Thoroughly inspect bags.
3. Check dust for dust build-up.
4. Observe damper valves for proper seating.
5. Check gaskets on all doors.
6. Inspect paint.
7. Check screw conveyor flighting.

Annually

1. Check all bolts.
2. Check welds.
3. Inspect hopper for wear.
4. Check airlock rotor for wear.

Records:

Records of inspections, maintenance, and performance parameters shall be retained for a minimum of two years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request. [Rule 62-296.700(6)(e), F.A.C.]