Florida Department of Environmental Protection

Northeast District
7825 Baymeadows Way, Suite B200
Jacksonville, Florida 32256

Rick Scott
Governor

Jennifer Carroll
Lt. Governor

Herschel T. Vinyard Jr.
Secretary

PERMITTEE:

Purina Mills, LLC.
Post Office Box 66812
St. Louis, Missouri 63166

I.D. Number: 0230008
Permit/Cert Number: 0230008-008-AO
Date of Issue: January 9, 2012
Expiration Date: January 9, 2017

Authorized Representative:
Paul A. Luther, EHS Manager

Project: Renewal of Boiler, Scratch/ Feed System, Hammer mill and Pellet Cooler

PROJECT AND LOCATION

This is the final air operating permit, which authorizes the renewal of (EU001) Hammer Mill, (EU002) Animal Feed Pellet Cooler, EU004) Boiler and(EU005) Scratch/Feed System. And the replacement of 5% opacity for EUs 001 and 005 baghouses with Rule 62-296.320 (4)(b), General Visible Emissions Standard of 20% opacity and removal of annual visible emission testing requirements for EU001, 002 and 005. The Land O'Lakes Purina Feed Mill is an animal feed facility (Standard Industrial Classification No. 2048). The facility is located in Columbia County west of U.S. 41/441, north of S.R. 100, 1575 Lake Jeffrey Road, in Lake City, Florida. The UTM coordinates are Zone 17, 341.2 km East, and 3341.5 km North.

This final 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.

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 Jacksonville, Florida.

Khalid Al-Nahdy

Khalid Al-Nahdy, P.E.
District Air Program Administrator

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Permit package (including the Notice and Final Permit) 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 January 9, 2012 to the persons listed below.

Paul A. Luther, EHS Manager, Purina Mills, LLC, (pluther@landolakes.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.

Monique Jordan

1/9/20112

(Clerk) (Date)

FACILITY AND PROJECT DESCRIPTION

This is an animal feed facility that consists of a boiler, hammer mill, scratch / feed system, and pellet cooler. Ingredients received are either sent to storage or to further processing. Further processing is either grinding, from which grain is returned to storage, or cracking and cleaning. From the cracking and cleaning systems, the grain either is returned to storage or packaged as scratch feed.

Ingredients are pulled from storage and weighed and mixed in a mixer. Material discharged from the mixer is meal and either is pelleted or sent to packaging or shipping. After pelleting, pellets are dried and cooled in the pellet cooler. The product is then bagged or shipped in bulk. Dust emissions will occur during the grain transferring, cleaning, cooling and drying operations. The boiler will lead to the emissions of combustion products such as oxides of nitrogen, oxides of sulfur, and particulate matter.

REGULATORY CLASSIFICATION

This facility consists of the following emissions units:

Emissions Unit	Description	F.A.C.
001	Hammer mill with a bag filter	Rule 62-296.320 (4)(b), for General Visible Emissions Standard
002	Pellet Cooler with 4 high efficiency cyclones	Rule 62-296.320 (4)(b), for General Visible Emissions Standard
004	No. 1 Boiler	BACT determination dated 4/21/87, and Rule 62-296.406, for Fossil Fuel Steam Generator < 250 MMBtu/Hr Heat Input
005	Scratch/feed system with fabric filter	Rule 62-296.320 (4)(b), for General Visible Emissions Standard

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.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting & Compliance Authority: The permitting authority for this project is the Northeast District Air Program, Florida Department of Environmental Protection (Department). The Northeast District's mailing address is 7825 Baymeadows Way, Suite B200, Jacksonville, Florida 32256-7590, telephone number is 904/256-1700. All documents related to applications for permits to operate an emissions unit shall be submitted to the Northeast District.

2. Appendices: The following Appendices are attached as part of this permit:
   a. Appendix A. Citation Formats and Glossary of Common Terms;
   b. Appendix B. General Conditions;
   c. Appendix C. Common Conditions;
   d. Appendix D. Common Testing Requirements

3. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the 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, 62-296 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.

4. 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.]

5. Modifications: 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.]

6. A completed **Application for Non Title V Air Permit Renewal** (DEP Form No. 62-210.900(4), F.A.C.), shall be submitted to the Department at least 60 days prior to the expiration date of this operation permit. To properly apply for an operation permit, the permittee shall submit the appropriate application form, processing fee, and compliance test reports as required by this permit.

   [Rule 62-4.090, F.A.C.] [Rules 62-4.055 and 62-4.220, F.A.C.]

SECTION 3. EMISSIONS UNITS SPECIFIC CONDITIONS

SPECIFIC CONDITIONS:

ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

1. **Hours of Operation**. The hours of operation are not limited, i.e. 8760 hours per year.
[Rules 62-4.160(2), 62-210.200(PTE), F.A.C.]

Hours of Operation (EU002). The hours of operation **are restricted** - 24 H/D; 5 D/W; 52 W/Y (6240 H/Y).
[Requested maximum hours in Non-Title V Air Operation Permit No. 0230008-005-AO]

2. **Permitted Capacity**. The maximum operating rates are listed below and shall not be exceeded without prior Department approval.

Emissions Unit	Description	Permitted Capacity
001	Hammer mill with a bag filter	20 Tons per Hour
002	Pellet Cooler, Grains, and Minerals	30 Tons per Hour to the Pellet Mill
004	No. 1 Boiler	6.5 MMBtu/hr
005	Scratch/feed system with fabric filter	20 Tons per Hour

3. **Method of Operation- Fuel**. Natural gas or No. 2 fuel oil shall be used as fuel for the boiler.
[Rules 62-4.160(2), 62-210.200(PTE), F.A.C.]

EMISSION LIMITATIONS AND PERFORMANCE STANDARDS

4. **Emission Limits**: The permitted maximum allowable emissions rate for each pollutant are listed in the table below and shall not exceeded without prior Department approval.

EU	Pollutant	Emissions Limit	F.A.C. Rule
001 002 005	Visible Emissions (VE)	< 20% opacity	Rule 62-296.320 (4)(b)1, for General Visible Emissions Standard
004	Particulate Matter (PM)	BACT	Rule 62-296.406(2) BACT dated 4-21-87
	Sulfur Dioxide (SO_2)	BACT 0.5 % sulfur content in No.2 fuel oil	Rule 62-296.406(3) BACT dated 4-21-87
	Visible Emissions (VE)	20% opacity, except for 27% for one 6-min period/hr or 40% for one 2-min period/hr	Rule 62-296.406(1)

5. **General Visible Emissions Standard (Facility Wide)**. No person shall cause, let, permit, suffer or allow to be discharge into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on Ringelmann Chart (20% opacity).
[Rule 62-296.320(4)(b)1., F.A.C.]

SPECIFIC CONDITIONS:

6. **Objectionable Odor Prohibited**. No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor.
[Rule 62-296.320(2), F.A.C.]

7. **Unconfined Particulate Matter (Facility Wide)**. No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of material; construction, alteration, demolition or wrecking; or industrially activity such as loading, unloading, storing and handling; without taking reasonable precaution to prevent such emissions. Reasonable precautions may include the followings:
    a. Paving and maintenance of roads, parking areas and yards.
    b. Application of water or chemicals to control emissions fro 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 stockpiles and similar activities.
    d. Removal of particulate matter from roads and other paved area under control of the owner or operator to mitigate re-entrainment, and from building or work areas to reduce airborne particulate matter.
    e. Landscaping or planting of vegetation.
    f. Use of hoods, fans, filters, and similar equipment to contain, capture and/or vent particulate matter.
    g. Confining abrasive blasting where possible.
    h. Enclosure or covering of conveyor systems.

    [Rule 62-296.320(4)(c), F.A.C.]

COMPLIANCE MONITORING AND TESTING REQUIREMENTS

8. **Compliance Testing**. Test the emissions for the following pollutant(s) within the timeframes specified by the condition.

Emissions Unit	Pollutant	Test Method	F.A.C. Rule
001 002 005	VE	EPA Method 9 **Note (1)**	Rule 62-296.320 (4)(b), for General Visible Emissions Standard
004	SO_2	**Note (2)**	62-297.440 (1)
	VE	DEP Method 9 **Note (3)**	62-297.310 (7)(a)

Note (1): **Special Compliance Tests**. When the Department, 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 Department rule or in a permit issued pursuant to those rules is being violated, it may 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 and to provide a report on the results of said tests to the Department.
[Rule 62-297.310(3)(b), F.A.C.]

Specific Condition No. 8 continued:

The test method for visible emissions shall be EPA Method 9, incorporated and adopted by reference in Chapter 62-297, F.A.C.
[Rule 62-296.320(4)(b)4.a.]

Note (2): In lieu of stack testing, Sulfur Dioxide emissions compliance shall be determined by maintaining a record of certified fuel oil analysis of all No. 2 fuel oil fired.
Note (3): Pursuant to Rule 62-297.310(7)(a) 4., F.A.C. a formal compliance test shall be conducted during each federal fiscal year (October 1 - September 30).

REPORTING AND RECORDKEEPING REQUIREMENTS

9. **Recordkeeping**. The owner or operator shall maintain records for the amount of fuel burned for the boiler for 12-consecutive months. This record shall be retained on site for 5 years.

10. This facility is subject to the requirements of the attached Appendices.