

217/782-2113

CONSTRUCTION PERMIT/PSD APPROVAL

PERMITTEE

Archer Daniels Midland Company
Attn: Ms. Shelley Huskey, Environmental Manager
4666 Faries Parkway
Decatur, Illinois 62526

Application No.: 06030043

I.D. No.: 115015AAE

Applicant's Designation:

Date Received: March 15, 2006

Subject: Steam coils on soy product dryers

Date Issued: Draft

Location: 4666 Faries Parkway, Decatur, Macon County

This Permit is hereby granted to the above-designated Permittee to CONSTRUCT emission source(s) and/or air pollution control equipment consisting of installations of steam coils in six dryers for soy products, all equipped with fabric filters (Isolate I-East, Center and West, Isolate II & Isolate III, and Functional Concentrate) with increased operation of boilers to supply the steam coils, as described in the above referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

In conjunction with this permit, approval is given with respect to the federal regulations for Prevention of Significant Deterioration of Air Quality (PSD) for the project, as described in the application, in that the Illinois Environmental Protection Agency (Illinois EPA) finds that the application fulfills all applicable requirements of 40 CFR 52.21. This approval is issued pursuant to the federal Clean Air Act, the federal regulations promulgated thereunder at 40 CFR 52.21 for Prevention of Significant Deterioration of Air Quality (PSD), and a Delegation of Authority agreement between the United States Environmental Protection Agency (USEPA) and the Illinois EPA for the administration of the PSD Program. This approval becomes effective in accordance with the provisions of 40 CFR 124.15 and may be appealed in accordance with provisions of 40 CFR 124.19. This approval is based upon the findings that follow. This approval is subject to the following conditions. This approval is also subject to the general requirement that the project be developed and operated consistent with the specifications and data included in the application and any significant departure from the terms expressed in the application, if not otherwise authorized by this permit, must receive prior written authorization from the Illinois EPA.

- 1a. This permit authorizes installations of steam coils in six existing soy products dryers, which will enable a reduction in the usage of natural gas fuel in these dryers. Steam from existing boilers preheat the air. Isolate I, II and III dryers were constructed pursuant to the permit 96100019 and the Functional Concentrate dryer was constructed pursuant to the permit 97090008. The boilers include coal boilers 1 through 9, which were constructed pursuant to Permits 85060030, 94020006 and 97050097.

- b. The conditions of this permit takes effect upon initial start up of an altered dryer.
- 2. The "affected dryers" for the purpose of these conditions are the Isolate I, II, III dryers and the Functional Concentrate dryer after being equipped with steam coils. The "affected boilers" are Boilers #1 through #9.
- 3. This permit does not authorize changes to the affected dryers or the soy specialty plant that would increase their capacity.
- 4a. This permit is issued based upon this project being subject to PSD for emissions of PM, NO_x, CO and SO₂ because the increase in emissions is significant, as described in Table A.
 - b. This permit is issued based upon the proposed changes to the affected dryers shall not result in an increase in emissions. Accordingly a new or revised determination of the Best Available Control Technology (BACT) is not required.
 - c. This permit is issued based upon an ambient air quality analysis not being required, because the units with the increase in emissions of PSD pollutants, the affected boilers, have previously been analyzed for their ambient air impact as part of issuance of PSD permits for affected boilers, including Permits 85060030, 94020006 and 97050097.
 - d. The Permittee shall operate, maintain, and repair the affected dryers in accordance with good air pollution control practice. All particulate matter control equipment in Isolate I, II, III and Functional Concentrate Department shall operate in a manner consistent with good air pollution control practice.
- 5a. The Permittee shall, for a period of 10 years following resumption of regular operation after the changes entailed in this project are made, operate the affected dryers in such a manner that they do not experience an increase in emissions of PM and qualify for BACT as modified units.
 - b. The Permittee shall also fulfill the applicable recordkeeping and reporting requirements of the PSD rules, 40 CFR 52.21(r)(6), for each affected dryer.
 - c.
 - i. All records required by this permit shall be retained at the source for at least five years, and shall be readily available for inspection and copying by the Illinois EPA and USEPA.
 - ii. Records may be kept in a computerized data system provided that requested information can be retrieved at the source during its normal working hours.
- 6. Any required reports and notifications shall be sent to the Illinois EPA at the following address unless otherwise indicated:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276

Springfield, Illinois 62794-9276
Telephone: 217/782-5811 Fax: 217/524-4710

A copy of all required reports and notifications shall also be sent to the Illinois EPA at the following address:

Illinois Environmental Protection Agency
Division of Air Pollution Control
2009 Mall Street
Collinsville, Illinois 62234
Telephone: 618/346-5120

- 7a. i. As provided by 40 CFR 52.21(r)(2), this permit shall become invalid for an affected dryer if construction is not commenced within 18 months of the PSD approval becoming effective, if construction is discontinued for a period of 18 months or more, or if construction is not completed within a reasonable period of time. The Illinois EPA may extend the 18-month period upon a satisfactory showing that an extension is justified.
- ii. For purposes of the above provisions, the definitions of "construction" and "commence" at 40 CFR 52.21(b)(8) and (9) shall apply, which requires that a source must enter into a binding agreement for on-site construction or begin actual on-site construction. (See also the definition of "begin actual construction," 40 CFR 52.21(b)(11)).
- b. The Permittee is allowed to operate the affected dryers under this permit for one year after initial startup. Thereafter, the Permittee may continue to operate provided that for purposes of the Clean Air Act Permit Program (CAAPP), the Permittee has completed the applicable procedures specified in Section 39.5(12)(a) of the Environmental Protection Act.
- c. These conditions supersede Standard Condition 6.
8. This permit does not relieve the Permittee of the responsibility to comply with all local, state and federal regulations that are part of the applicable Illinois' State Implementation Plan, as well as all other applicable federal, state and local requirements.

If you have any questions concerning this permit, please contact Shashi Shah at 217/782-2113.

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:SRS

cc: Region 3

Table A. Summary of Emissions Changes from the Project

Process Area	Emissions Change (tpy)					
	PM	PM ₁₀	VOC	NO _x	CO	SO ₂
Dryers ^a	-2.7	-2.7	-2.1	-33.1	-31.8	-0.2
Boilers Increased Utilization ^b	29.3	29.3	28.0	351.6	173.4	961.2
Projected Change in Actual Emissions	26.7	26.7	25.9	318.5	141.6	960.9

- a. The change in actual emissions is calculated as the projected actual emissions minus the baseline actual emissions excluding changes in emissions that would have occurred without the project.
- b. Actual emission change associated with increased utilization of the boilers: The project will increase steam demand by a maximum of 200,000 pounds per hour.