

Illinois Environmental Protection Agency

Proposed Issuance of a Construction Permit/PSD Approval to  
Archer Daniels Midland Company – Decatur West Plant

Archer Daniels Midland Company (ADM) has applied to the Illinois EPA for a construction permit to expand its west soybean plant located at 3883 Faries Parkway. The proposed expansion would increase plant capacity including the installation of two additional flaking rolls in soybean preparation, modifications to the existing desolventizer toaster dryer cooler (DTDC), installation of a new DTDC, a new cooling tower and the addition of a meal grinder. The project will result in a significant increase in volatile organic material (VOM), sulfur dioxide (SO<sub>2</sub>), and nitrogen oxide (NO<sub>x</sub>) emissions as defined by the federal rules for Prevention of Significant Deterioration (PSD), 40 CFR 52.21. Based on its review of ADM's application, the Illinois EPA has made a preliminary determination that ADM is entitled to a construction permit.

The Illinois EPA is accepting comments prior to making a final decision on the application. **Comments must be postmarked by midnight November 3, 2007.** If sufficient interest is expressed in this matter, a hearing may be held. Comments, questions and requests for information, should be directed to Brad Frost, Bureau of Air, Illinois EPA, Box 19506, Springfield, IL 62794-9506, phone 217/782-2113, TDD 217/782-9143.

Persons wanting more information may view the draft permit and project summary at [www.epa.gov/region5/air/permits/ilonline.htm](http://www.epa.gov/region5/air/permits/ilonline.htm) (please look under All Permit Records, PSD, New). These documents and the application may also be viewed at the Illinois EPA's offices at 2125 South First Street in Champaign, 217/278-5800 and 1340 N. Ninth St., Springfield, 217/782-7027 (please call ahead to assure that someone will be available to assist you). Copies of the documents will be made available upon request.

As a major modification, the project is subject to Best Available Control Technology (BACT) under PSD. Condensation with mineral oil extraction at the main vent, improvement in desolventization in the meal processing and a leak detection and prevention program for equipment leaks is considered BACT for control of VOM from the oil extraction process.

ADM submitted an air quality analysis assessment of VOM emissions impact on ambient ozone levels. The screening indicates that the impact of the facility on ozone levels combined with background ozone levels would not cause an exceedance of the National Ambient Air Quality Standard.

Increases in NO<sub>x</sub> and SO<sub>2</sub> emissions are due primarily from increased utilization of existing boilers at the facility. These boilers were subject to PSD and the full utilization of the boilers was modeled when the permits for the boilers were issued. The air quality analyses in the original applications showed that the potential emissions of the boilers, at full utilization, would not endanger ambient air quality.