

Illinois Environmental Protection Agency

Notice of Comment Period and Public Hearing
Concerning the Proposed Issuance of a Construction Permit/PSD Approval
to Christian County Generation, LLC in Taylorville

Christian County Generation, LLC, 4350 Brownsboro Road, Suite 110, Louisville, Kentucky, has applied for an air pollution control construction permit from the Illinois Environmental Protection Agency (Illinois EPA) to build an integrated gasification combined cycle (IGCC) power plant at 1630 North 1400 East Road in Taylorville. The plant would consist of three gasifiers and two syngas cleanup trains, a sulfur recovery unit, two combined cycle combustion turbines, and other ancillary operations. The Illinois EPA has made a preliminary determination to issue a permit for the project and has prepared a draft permit for review. The Illinois EPA is holding a public comment period and a hearing to accept comments from the public on the proposed issuance of a permit for this project, prior to making a final decision on the application.

The Illinois EPA Bureau of Air will hold a public hearing on January 11, 2007 at 7:00 pm in the cafeteria of the Taylorville High School, 815 Springfield Road in Taylorville. The hearing will be held to receive comments and answer questions from the public prior to making a final decision concerning the application. The hearing will be held under the Illinois EPA's "Procedures for Permit and Closure Plans," 35 IAC 166, Subpart A. Lengthy comments and questions should be submitted in writing. Requests for interpreters (including sign language) must be made by December 26, 2006. Any questions about hearing procedures or requests to address special needs should be made to the Illinois EPA, Hearing Officer, Re: Christian County Generation, 1021 N. Grand Ave. E., P.O. Box 19276, Springfield, IL 62794-9276, 217/782-5544.

Written comments must sent to the Hearing Officer and be postmarked by midnight, February 10, 2007, unless otherwise specified by the Hearing Officer. Written comments need not be notarized.

Persons wanting more information may obtain copies of the draft permit, and project summary at www.epa.gov/region5/air/permits/ilonline.htm (please look under All Permit Records, PSD, New). These documents and the application can also be viewed at the Taylorville Public Library, 121 West Vine, Taylorville, or at the Illinois EPA's offices at 4500 S. Sixth Street Road, Springfield, 217/786-6329 and 1340 N. Ninth St., Springfield, 217/782-7027 (for either Illinois EPA location, please call ahead to assure that someone will be available to assist you).

For information or requests about the application or draft permit, please contact:
Brad Frost, Community Relations, Illinois EPA, 1021 N. Grand Ave. E., P.O. Box 19506, Springfield, IL 62794-9506, 217/782-2113 or 217/782-9143 TDD.

This project is considered a major project under the federal rules for Prevention of Significant Deterioration (PSD), 40 CFR 52.21, for emissions of nitrogen oxides (NO_x), sulfur dioxide (SO₂), particulate matter (PM), carbon monoxide (CO) and sulfuric acid mist. Under the PSD rules, the plant must use Best Available Control Technology (BACT) for emissions of these pollutants. Christian County Generation has proposed high-efficiency cleaning of the raw syngas prior to combustion as BACT for emissions of SO₂, PM and sulfuric acid mist. For CO and NO_x, which are formed by fuel combustion in the turbines, Christian County Generation has proposed good combustion practices and the combination of nitrogen injection and selective catalytic reduction. The Illinois EPA's initial review concludes that these measures and other proposed control measures will provide BACT for the project.

The air quality analysis submitted by Christian County Generation for this project shows that it will not cause a violation of the National Ambient Air Quality Standards (NAAQS) for NO_x, SO₂, PM₁₀ or CO or an exceedance of applicable PSD increments. For NO_x and CO, this analysis shows maximum impacts that are below the significant impact levels set by the PSD rules. For SO₂, the maximum modeled ambient concentrations with the plant would be 738 micrograms per cubic meter (µg/m³) 3-hr average, 201 µg/m³ 24-hr average and 22 µg/m³ annual average, compared to NAAQS of 1,300, 365, and 80 µg/m³, respectively. For PM₁₀, the maximum modeled concentrations would be 130 µg/m³ 24-hr and 28 µg/m³ annual, compared to NAAQS of 150 and 50 µg/m³, respectively. For SO₂, the maximum increment consumption, which generally reflects the impact of the plant, would be 28 µg/m³ 3-hr, 6.2 µg/m³ 24-hr, and 0.35 annual compared to applicable increments of 512, 91 and 20 µg/m³, respectively. For PM₁₀, the maximum increment consumption would be 14.8 µg/m³ 24-hr and 1.3 µg/m³ annual, compared to increments of 30 and 17 µg/m³, respectively.