

Illinois Environmental Protection Agency

Proposed Issuance of a Construction Permit/PSD Approval for
Invenergy Nelson, LLC in Nelson

Invenergy Nelson, LLC, 1 South Wacker Drive, Chicago, Illinois, has applied to the Illinois EPA for a permit to complete construction of an electric power generation facility at 1311 Nelson Road, next to I-88, south of Nelson in Lee County. The permit for the facility was originally issued in 2000. However, construction stopped and the facility was not completed. Invenergy was issued a permit in 2008 to complete the facility. Invenergy did not proceed under its 2008 permit and needs a permit to complete the facility.

The facility would now have two natural gas-fired combustion turbines and associated heat recovery steam generators. The facility would be a major source for emissions of nitrogen oxides (NO_x), carbon monoxide (CO), particulate matter (PM), volatile organic material (VOM) and sulfur dioxide (SO₂) under the federal rules for Prevention of Significant Deterioration (PSD), 40 CFR 52.21. The Illinois EPA has made a preliminary determination, based on its review of the application, that Invenergy is entitled to the requested permit.

The Illinois EPA is accepting comments prior to making a final decision on the application. **Comments must be postmarked by midnight December 19, 2010.** 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 <http://www.epa.gov/reg5oair/permits/ilonline.html>. The repositories for these documents and the application are located at the Illinois EPA's offices at 1630 Fifth Ave. in Moline, 309/797-3341, 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.

Under the PSD rules, the facility must control its emissions of NO_x, CO, PM, VOM and SO₂ with Best Available Control Technology (BACT). The Illinois EPA has determined that the facility would use BACT. The turbines would be fired with natural gas and use low NO_x combustors, selective catalytic reduction, and good combustion practices. The cooling towers would have high efficiency drift eliminators.

As required by the PSD rules, Invenergy's application included analyses using dispersion modeling of the air quality impacts of the facility for NO₂, PM₁₀, PM_{2.5}, SO₂ and CO. These analyses show that, other than for NO₂ on a 1-hour average, the impacts would not be significant. For NO₂, further analysis showed that the facility would not cause violations of applicable National Ambient Air Quality Standards (NAAQS) for NO₂. Invenergy also submitted an analysis for the impact of the facility on ozone air quality that showed that the facility would not cause a violation of the NAAQS for ozone.