

Notice Concerning Proposed Kansas Air Quality Construction Permit and Public Hearing

Notice is hereby given that the Kansas Department of Health and Environment (KDHE) is soliciting comments regarding a proposed air quality construction permit. Midwest Energy, Inc. located at 1330 Canterbury Rd., Hays, Kansas, 67601, has applied for an air quality construction permit in accordance with the provisions of K.A.R. 28-19-300 to install three new spark ignition Wartsila four stroke lean burn (4SLB) reciprocating internal combustion engine (RICE) electric generating units using pipeline quality natural gas and auxiliary equipment at their existing Goodman Energy Center Facility. Each engine will be nominally rated at 9.4 megawatts (MW) of electricity for a combined power output of approximately 28 MW. The facility will also include a one million British thermal units (MMBtu) per hour gas heater, a 100 horsepower (hp) emergency fire pump, a 250 kW emergency diesel generator, a 200 gallon fuel oil storage tank, and a 20 gallon fuel oil storage tank. The facility is located in the Southeast Quarter of Section 7, Township 13 South, Range 18 West, Ellis County, Kansas, approximately 4 miles northwest of Hays, Kansas.

Emissions of particulate matter (PM), PM equal to or less than 10 microns in diameter (PM_{10}), PM equal to or less than 2.5 microns in diameter ($PM_{2.5}$), volatile organic compounds (VOCs), oxides of nitrogen (NO_x), sulfur dioxide (SO_2), carbon monoxide (CO), sulfuric acid mist (H_2SO_4), hazardous air pollutants (HAPs) and greenhouse gases (GHGs) were evaluated during the permit review process.

The proposed permit is to be issued in accordance with the provisions of K.A.R. 28-19-350, *Prevention of Significant Deterioration* (PSD), which adopts the federal standards, procedures and requirements of 40 CFR 52.21 by reference. These air quality regulations apply to major stationary emission sources located in areas designated as “attainment” under the federal Clean Air Act (CAA). Attainment areas are areas where the air quality meets or is better than the National Ambient Air Quality Standards (NAAQS).

The PSD regulations require evaluation of emission reduction techniques to identify the best available control technology (BACT) for each regulated pollutant, including GHGs, for which the emission rate exceeds the PSD significant level. The purpose of BACT is to affect the maximum degree of reduction achievable, taking into account energy, environmental and economic impacts for each regulated pollutant under review. Evaluation of the estimated emissions for the proposed Goodman Energy Center project indicates that the emission rates of PM, PM_{10} , $PM_{2.5}$, and GHGs all exceed the significance levels. The facility conducted the required BACT analyses. The department has reviewed the BACT analyses for the Goodman Energy Center Project and concurs with its findings as follows:

- For the Wartsila 4SLB RICE, combustion controls and low ash fuels are BACT for PM, PM_{10} and $PM_{2.5}$, use of efficient lean burn engines, use of pipeline quality natural gas fuel, and good combustion practices are BACT for GHGs;
- For the fuel gas heater, good combustion practices is BACT for PM, PM_{10} , and $PM_{2.5}$, and use of pipeline quality natural gas as fuel and good combustion practices are BACT for GHGs.
- For the emergency diesel generator, combustion control is BACT for PM, PM_{10} , $PM_{2.5}$, and selection of the most efficient engines that meet the project needs is BACT for GHGs;
- For the emergency fire pump, combustion control is BACT for PM, PM_{10} , $PM_{2.5}$, and selection of the most efficient engines that meet the project needs is BACT for GHGs.

An ambient impact analysis was performed on the potential air emissions of PM_{10} and $PM_{2.5}$ from the Goodman Energy Center project.

- A preliminary modeling analysis for PM₁₀ demonstrated that the proposed Goodman Energy Center project will not cause or significantly contribute to any violation of the 24-hour and annual PM₁₀ NAAQS. The modeled H1H impacts of 24-hour and annual PM₁₀ fall below the SIL thresholds. Therefore, refined (cumulative) modeling analyses are not required for this pollutant and averaging times.
- A detailed modeling analysis for PM_{2.5} demonstrated the proposed Goodman Energy Center project will not cause or significantly contribute to any violation of the 24-hour or annual PM_{2.5} NAAQS. It also demonstrated that 43.2% of the 24-hour PM_{2.5} and 52.5 % of the annual PM_{2.5} Class II area maximum allowable increment are expected to be consumed by the proposed project.
- An analysis of visibility was conducted for Cedar Bluff State Park, Wilson State Park, and Hays Regional Airport. The VISCREEN model results indicate no exceedances of the screening criteria at Cedar Bluff State Park and Wilson State Park. The analysis exceeds the Class I sky and terrain perceptibility threshold at Hays Regional Airport. Therefore, a second-level VISCREEN analysis was performed for the Hays Regional Airport. The visibility results of the second-level VISCREEN analysis for Hays Regional Airport show that the emissions from the project pass the Class I sky and terrain perceptibility thresholds. No adverse impacts on soils and vegetation in the area are expected.
- Any federal land manager who has reason to believe they may have a class I area adversely impacted by the emissions from the proposed project has the opportunity to present KDHE with a demonstration of the adverse impact on the air quality-related values of the federal class I area during the comment period.

A public comment period has been established to allow citizens the opportunity to express any concerns they may have about this proposed permitting action. The public comment period is to begin on July 31, 2014, and will end on September 2, 2014 at noon. All comments should be submitted in writing to Gerald McIntyre, Bureau of Air, 1000 SW Jackson, Suite 310, Topeka, KS 66612-1366.

Any member of the public may request to hold a public hearing to provide comments on the proposed issuance of the draft air quality construction permit. A written request to hold a public hearing should be sent to the attention of Gerald McIntyre at the address listed above or by FAX to (785) 291-3953 and must be received by noon on September 2, 2014. *If a pertinent request is received, a public hearing is tentatively scheduled by the Kansas Department of Health and Environment (KDHE), on Tuesday, September 9, 2014, beginning at 6:00 p.m. and continuing until audience members have an opportunity to submit comments. The hearing is tentatively scheduled to be held at the Memorial Union, Fort Hays State University, in the MU Black & Gold Room – Rm 212, located at 600 Park Street, Hays, Kansas, 67601. **If no pertinent requests to hold the public hearing are received by noon September 2, 2014, the public hearing will be cancelled. A notice of the cancellation will be posted at the KDHE website at <http://www.kdheks.gov/bar/publicnotice.html>***

If a hearing is conducted, all interested parties will be given a reasonable opportunity to present their views orally or by submission of written materials during the hearing. In order to give all parties an opportunity to present their views, it may be necessary to limit oral presentations to a specific time limit. Any individual with a disability may request accommodation in order to participate in the public hearing and may request the proposed materials in an accessible format. Requests for accommodation must be made no later than September 2, 2014, by contacting *the Bureau of Air* at (785) 296-8548.

A copy of the proposed permit, permit application, all supporting documentation, and all information relied upon during the permit application review process for the PSD permit are available for public review for a period of 30 days from the date of publication during normal business hours (8:00 AM to 5:00 PM) at the KDHE, Bureau of Air (BOA), 1000 SW Jackson, Suite 310, Topeka, KS 66612-1366 and at the KDHE Northwest District Office, 2301 East 13th Street, Hays, KS 67601-2651. To obtain or review the proposed permit and supporting documentation, contact Gerald McIntyre, (785) 296-8548, at the KDHE central office, or Larissa Parker, (785) 625-5663, at the KDHE Northwest District Office. The standard departmental cost will be assessed for any copies requested.

These same materials are available, free of charge, at the KDHE Bureau of Air website, <http://www.kdheks.gov/bar/index.html>.

Robert Moser, MD, Secretary
Kansas Department of Health and Environment