

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. Sunflower Electric Power Corporation (Sunflower) located at 301 West 13th Street, Hays, Kansas has applied for an air quality construction permit in accordance with the provisions of K.A.R. 28-19-300 to construct one (1) new 895 MW coal-fired steam generating unit and associated ancillary equipment (Holcomb expansion) at their generating station located at 2440 Holcomb Lane, Holcomb, Kansas. Emission of particulate matter (PM), PM equal to or less than 10 microns in diameter (PM₁₀), 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 (SO₂), carbon monoxide (CO), and sulfuric acid mist (H₂SO₄) 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 adopt 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 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 Holcomb expansion project indicates that the emission rate of oxides of nitrogen, sulfur dioxide, carbon monoxide, particulate matter, volatile organic compounds, and sulfuric acid mist all exceed the significance levels. Sunflower conducted the required BACT analyses. The department has reviewed Sunflower’s BACT analyses and concurs with its findings that low NO_x burners and overfire air with selective catalytic reduction is BACT for NO_x, dry flue gas desulfurization (dry FGD) is BACT for SO₂ and H₂SO₄ and fabric filters is BACT for PM, PM₁₀ and PM_{2.5} for the Holcomb expansion project.

An ambient impact analysis was performed on the potential air emissions of NO₂, SO₂, PM₁₀, PM_{2.5}, and CO from the Holcomb expansion project.

- The NO₂ screening modeling demonstrated no significant impact on the annual ambient air quality standard and demonstrated that 0.96% of the annual Class II maximum allowable increment for NO₂ is expected to be consumed. Subsequent detailed modeling for the new 1-hour NO₂ ambient air quality standard demonstrates the planned source will not contribute significantly to any modeled ambient air quality violations. EPA has not established a 1-hour Class II

- maximum allowable increment for NO₂. Accordingly, no calculation of the potential consumption of such increment is possible.
- Detailed modeling for SO₂ demonstrates that the emissions will not contribute significantly to any violation of the 1-hour, 3-hour, 24-hour, or annual ambient air standards and that 17.4% of the 3-hour, 12.9% of the 24-hour, and 2.75% of the annual Class II maximum allowable increments for SO₂ are expected to be consumed. USEPA has not established a 1-hour Class II maximum allowable increment for SO₂. Accordingly, no calculation of the potential consumption of such increment is possible.
 - Detailed modeling for PM₁₀ demonstrates that the emissions will not contribute significantly to any violation of the 24-hour or annual ambient air quality standard and that 24.8% of the 24-hour, and 6.18% of the annual Class II maximum allowable increments for PM₁₀ are expected to be consumed.
 - Detailed modeling for PM_{2.5} demonstrates that the emissions will not contribute significantly to any violation of the 24-hour or annual ambient air quality standards. USEPA has not established 24-hour or annual Class II maximum allowable increments for PM_{2.5}. Accordingly, no calculation of the potential consumption of such increment is possible.
 - The CO screening modeling analysis demonstrated no significant impact on the 1-hour or 8-hour ambient air quality and that the emissions would not significantly contribute to any violation of ambient air standards. EPA has not established any Class II maximum allowable increments for CO. Accordingly, no calculation of the potential consumption of such increment is possible.

In June 2007, Sunflower performed a Class I visibility analysis using CALPUFF in response to a November 2006 inquiry by the federal land manager responsible for the Wichita Mountains Class I area. The Holcomb expansion project, as then proposed, included two new units totaling 1400 MW. The analysis determined the projected visibility impacts to be within allowable criteria. In addition, KDHE performed a source-specific CAMx model analysis, which concluded the visibility impacts from the expansion project on the Wichita Mountains Class I area to be within allowable criteria. The visibility impacts of the proposed 895 MW project will be lower than those previously determined. No adverse impacts on soils and vegetation in the area were expected. Any federal land manager who has reason to believe he/she may have a Class I area adversely impacted by the emissions from the expansion project has the opportunity to present KDHE with an analysis of the adverse impact on the air quality-related values of that 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 1, 2010, and end on August 15, 2010. All comments should be submitted in writing to Melissa Weide, Bureau of Air, 1000 SW Jackson, Suite 310, Topeka, KS 66612-1366 or presented at the public hearing.

Three public hearings have been scheduled to receive comments on the proposed air quality construction permit. The following schedule has been set:

August 2, 2010 Blue Valley Northwest High School
 135th and Switzer, Overland Park, KS

The public hearing will begin at 2:00 PM and run until all participants present have an opportunity to offer written and/or verbal comments but no later than 5:00 PM. The public hearing will reconvene at 6:30 PM and continue until all verbal and/or written comments have been submitted by participants.

August 4, 2010 Highway Patrol Training Center Auditorium
 2025 East Iron, Salina, KS 67401

The public hearing will begin at 2:00 PM and run until all participants present have an opportunity to offer written and/or verbal comments but no later than 5:00 PM. The public hearing will reconvene at 6:30 PM and continue until all verbal and/or written comments have been submitted by participants.

August 5, 2010 Garden City Community College, Joyce Auditorium
 801 Campus Drive, Garden City, KS

The public hearing will begin at 2:00 PM and run until all participants present have an opportunity to offer written and/or verbal comments but no later than 5:00 PM. The public hearing will reconvene at 6:30 PM and continue until all verbal and/or written comments have been submitted by participants.

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 request that each participant 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 July 23, 2010 by contacting Linda Vandevord at (785)296-6423.

A copy of the proposed permit, permit application, all supporting documentation, and all information relied upon during the permit application review process are available for public review for a period of 45 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. A copy of the proposed permit and all supporting documentation can also be reviewed at the KDHE Southwest District Office, 302 West McArtor Road, Dodge City, KS 67801-6014 and the Northwest District Office, 2301 East 13th Street, Hays, KS 67601-2651. To obtain or review the proposed permit and all supporting documentation, contact Linda Vandevord, (785)296-6423 at the KDHE central office, Allen Guernsey, District Environmental Administrator in the KDHE Southwest District Office, (620)225-0596 or Dan Wells, in the KDHE Northwest District

Office, (785) 625-5665. 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>.

Roderick L. Bremby, Secretary
Kansas Department of Health and Environment