

AIR QUALITY PERMIT NOTICE

Draft Title V Permit V-26-036

Subject to 401 KAR 51:017, Prevention of Significant Deterioration (PSD) and Concerning the Construction and Operation of a Natural Gas-Fired Combine Cycle Combustion Turbine Electric Generating Unit in Mercer County, Kentucky

Kentucky Utilities Company (E.W. Brown Generating Station)

Source ID: 21-167-00001

Agency Interest: 3148

Kentucky Utilities Company (E.W. Brown Generating Station) of 820 West Broadway, Louisville, KY 40232 has applied to the Kentucky Division for Air Quality (Division) for a significant revision to and renewal of its existing Title V permit to construct and operate a Fossil Fuel-Fired Power Generation facility at 815 Dix Dam Road, Harrodsburg, KY 40330. The permit addresses the proposed addition of a new 681 MW (gross) natural gas-fired combined cycle electric generating unit (EU 58) and its associated ancillary equipment. Due to the project's exceedance of the significant emission rate for PM, PM₁₀, PM_{2.5}, CO, VOC, H₂SO₄, and GHG, the project is considered a major modification to an existing major stationary source and is subject to New Source Review under 401 KAR 51:017. The plant is classified as a Title V major source due to its emissions of regulated air pollutants and hazardous air pollutants.

For the project, ambient air dispersion modeling was performed to determine the degree of increment consumption expected to occur, pursuant to 401 KAR 51:017. For this permitting action, a Class II increment analysis is only required for the emissions of PM₁₀ (24-hour), PM_{2.5} (Annual and 24-hour), and NO₂ (Annual). The following table lists the Class II PSD increment and increment consumed:

Pollutant	Averaging Period	Class II PSD Increment (µg/m ³)	Increment Consumed (µg/m ³)	Exceeds Increment?
PM ₁₀	24-hour	30	15.49	No
PM _{2.5}	24-hour	9	1.86	No
PM _{2.5}	Annual	4	0.20	No
NO ₂	Annual	25	2.23	No

Based on the AERMOD modeling results for NO₂, PM₁₀, and PM_{2.5}, the predicted ambient impacts within 50 km of the facility are below the Class I Significant Impact Levels (SILs); therefore, compliance with the applicable Class I PSD Increment standards is presumed. The three Class I areas within 300 km of the KU Brown facility evaluated in the Class I Significance Analysis is Mammoth Cave National Park, Great Smoky Mountains National Park, and Joyce Kilmer-Slickrock. Based on the modeling results, there will be no adverse impact on visibility to the three Class I areas.

Official copies of the Division's draft permit and relevant supporting information are available for inspection by the public at <https://eec.ky.gov/Environmental-Protection/Air/Pages/Public-Notices.aspx> and during normal business hours at the following locations:

Division for Air Quality, 300 Sower Boulevard, 2nd Floor, Frankfort, KY 40601, Phone (502) 564-3999; and Division for Air Quality, Frankfort Regional Office, 300 Sower Boulevard, 1st Floor, Frankfort, KY 40601, Phone (502) 564-3358.

For a period of 30 days, the Division is soliciting comments on the draft permit. The first day of the 30-day period is the day this notice is posted on the website above. A virtual public hearing has been scheduled on August 12, 2026, at 2:00 PM Eastern Time. If no one contacts the Division to request a public hearing before the close of business on August 7, 2026, it will be canceled. Information regarding the public hearing can be found on the public notice website at <https://eec.ky.gov/Environmental-Protection/Air/Pages/Public-Notices.aspx>.

Comments and/or public hearing requests should be sent to Michelle McCloskey at 300 Sower Boulevard, 2nd Floor, Frankfort, KY 40601 or via email to AIRKentucky@ky.gov. Any person who requests a public hearing must state the issues to be raised at the hearing. All relevant comments will be considered in issuing the proposed permit. U.S. EPA has up to 45 days following issuance of the proposed permit to submit comments. The status regarding EPA's 45-day review of this project and the deadline for submitting a citizen petition will be posted at the following website address: <https://www.epa.gov/caa-permitting/kentucky-proposed-title-v-permits> shortly after the end of this 30-day comment period. Further information can be obtained by calling Stacie Daniels at (502) 782-1121.

The Commonwealth of Kentucky does not discriminate on the basis of race, color, national origin, sex, religion, age or disability in employment or the provision of services and provides, upon request, reasonable accommodation including auxiliary aides and services necessary to afford individuals an equal opportunity to participate in all programs and activities. Materials will be provided in alternate format upon request.