

## AIR QUALITY PERMIT NOTICE

Permit # V-20-001 R2

Subject to 401 KAR 51:017, Prevention of Significant Deterioration (PSD) and  
Concerning the Construction and Operation of a Steel Recycling Mini-mill  
in Meade County, Kentucky  
Source ID: 21-163-00044  
Agency Interest: 162861

Nucor Steel Brandenburg, a division of Nucor, of 1915 Rexford Rd, Charlotte, NC, has applied to the Kentucky Division for Air Quality for a significant revision to its existing Title V/Title I permit to construct and operate a new steel mill facility and associated support operations to be located at Ronnie Greenwell Commerce Road, Brandenburg, Kentucky. The plant is classified as a Title V major source due to its emissions of regulated air pollutants. The new steel mill facility has the potential to emit 312 tons of PM, 436 tons of PM<sub>10</sub>, 276 tons of PM<sub>2.5</sub>, 787 tons of NO<sub>x</sub>, 2,160 tons of CO, 313 tons of SO<sub>2</sub>, 161 tons of VOC, and 1,074,041 tons of CO<sub>2e</sub> annually which are the 8 pollutants for which the potential to emit is above the PSD significance thresholds. This facility also has the potential to emit 0.44 ton of Lead and 2.08 tons of Fluorides, both below the PSD significant thresholds. Air quality regulations for prevention of significant deterioration of air quality will apply to the emissions of PM, PM<sub>10</sub>, PM<sub>2.5</sub>, NO<sub>x</sub>, CO, SO<sub>2</sub>, VOC, and CO<sub>2e</sub> from this facility. 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. The following table lists the Class II PSD increment and increment consumed:

Pollutant	Averaging Period	Class II PSD Increment (µg/m <sup>3</sup> )	Increment Consumed (µg/m <sup>3</sup> )	Exceeds Increment?
PM <sub>10</sub>	24-hour	30	25.97	No
PM <sub>10</sub>	Annual	17	5.11	No
PM <sub>2.5</sub>	24-hour	9	8.82	No
PM <sub>2.5</sub>	Annual	4	2.29	No
NO <sub>x</sub>	Annual	25	12.91	No
SO <sub>2</sub>	24-hour	91	4.88	No

Based on the AERMOD modeling results for NO<sub>2</sub>, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> and the CALPUFF (Version 5.8.5) modeling results for PM<sub>10</sub>, the predicted ambient impacts are below the Class I Significant Impact Levels (SILs) at all Class I areas within 50 km of the Brandenburg facility; therefore, compliance with the applicable Class I PSD Increment standards is presumed. The one Class I area within 300 km of the Brandenburg facility evaluated in the Class I Significance Analysis is Mammoth Cave National Park (@ 80 km).

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, 2<sup>nd</sup> Floor, Frankfort, KY 40601 (502) 564-3999; Division for Air Quality Owensboro Regional Office, 3032 Alvey Park Drive, Suite 700, Owensboro, KY 42303, (270) 687-7304.

For a period of 30 days the Division is soliciting comments on the draft permit and affording the opportunity for a public hearing. The day after publication of this ad begins the 30 day comment period. Comments and/or public hearing requests should be sent to Michelle McCloskey at 300 Sower Boulevard, 2<sup>nd</sup> Floor, Frankfort, KY 40601 or via email to [AIRKentucky@ky.gov](mailto:AIRKentucky@ky.gov). Any person who requests a public hearing must state the issues to be raised at the hearing. If the Division finds that a hearing will contribute to the decision-making process by clarifying significant issues affecting the draft permit, a hearing will be announced. 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 Michelle McCloskey at 502-782-6713.

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.