



west virginia department of environmental protection

Division of Air Quality
601 57th Street, SE
Charleston, WV 25304
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Harold D. Ward, Cabinet Secretary
dep.wv.gov

Pursuant to §45-14-17.7, the Division of Air Quality presents the

FINAL DETERMINATION

for the

CONSTRUCTION

of

**Nucor Steel West Virginia LLC
West Virginia Steel Mill**

proposed to be located in

Apple Grove, Mason County, WV.

**Permit Number: R14-0039
Facility Identification Number: 053-00085**

Date: May 5, 2022

Promoting a healthy environment.

BACKGROUND INFORMATION

Application No.: R14-0039
Plant ID No.: 053-00085
Applicant: Nucor Steel West Virginia LLC
Facility Name: West Virginia Steel Mill
Location: Apple Grove, Mason County
SIC/NAICS Code: 3312/331110
Application Type: Major Source Construction
Received Date: January 21, 2022
Engineer Assigned: Joseph R. Kessler, PE
Fee Amount: \$14,500
Date Received: January 24, 2022
Complete Date: March 23, 2022
Due Date: September 19, 2022
Applicant Ad Dates: January 27, 2022
Newspaper: *Point Pleasant Register*
UTM's: Easting: 398.20 km • Northing: 4,278.87 km • Zone: 17
Latitude/Longitude: 38.65536/-82.16853
Description: Construction of a 3,000,000 tons per year sheet steel mill.

On March 30, 2022, the West Virginia Division of Air Quality (DAQ) went to public notice in the *Point Pleasant Register* with a preliminary determination to issue the Prevention of Significant Deterioration (PSD) permit R14-0039 to Nucor Steel West Virginia LLC (Nucor) for the proposed construction of a new sheet steel mill near Apple Grove, Mason County, WV. On this date, pursuant to §45-13-8.7 and §45-14-13.3, a copy of the preliminary determination, draft permit, and public notice was forwarded to USEPA Region III, the National Park Service (NPS) and the US Forest Service (USFS). A copy of the application, complete file, preliminary determination and draft permit was made available for public review on the DAQ's website. Additionally, pursuant to §45-14-17.5, a copy of the public notice was sent to the County Clerk of Mason County, WV, and the Ohio Environmental Protection Agency. Pursuant to §45-13-9 and §45-14-18, a virtual public meeting was held on Thursday, April 7, 2022, to receive comments on the permitting action. Comments on the preliminary determination and the draft permit were required to be submitted by 5:00 PM on April 29, 2022.

This document will summarize the comments received on the draft permit, any actions taken as a result of the comments, any substantive changes to the draft permit, and the final determination of the DAQ regarding R14-0039.

COMMENTS RECEIVED

Public Comments

On April 10, 2022, one (1) comment was received via e-mail (comment and response will be placed in the "IPR Files" folder available online at the link below given in this document). This

comment was general in nature and was opposed to the issuance of Permit Number R14-0039. This comment will be acknowledged pending the acceptance of this final determination and the response will include a link to the final documents.

Public Meeting

A virtual public meeting was held on April 7, 2022, to receive comments on the permitting action. No formal comments, however, were given during the meeting. Questions asked during the meeting were answered at that time. A transcript of the meeting (and other information relevant to the public meeting) has been placed in the final “IPR Files” folder available online at the link given below in this document.

EPA Comments

On April 29, 2022, USEPA Region III submitted (via e-mail) twenty-five (25) comments on the both the draft permit/preliminary determination (8 comments) and on the air dispersion modeling report (17 comments). These comments were evaluated and responded to with an attached signed document via e-mail on May 4, 2022. Changes to the draft permit that were made in response to these comments are detailed below. The comments and the DAQ response to the comments will be placed in the “IPR Files” folder available online at the link given below in this document.

CHANGES TO DRAFT PERMIT

The following changes were made to the draft permit. The reason for the specific change is as indicated.

- *Omission:* [Table 1.0, Footnote (1)] The acronym “PE - Partial Enclosure” was added to the footnote.
- *EPA Comment I(D):* [3.5.3] The EPA address was updated.
- *EPA Comment I(B)(2):* [Table 4.1.4(a), Footnote (8)] This footnote was re-written to better define the BACT control mitigation strategy of lime fluxing.
- *Correction:* [Table 4.1.4(a), Footnote (9)] The LMF emission rate of 0.05 lb-VOC/ton-steel was corrected to 0.005 lb-VOC/ton-steel.
- *EPA Comment I(E):* [4.1.10(c)] This requirement was revised to define a schedule for inspecting the Melt Shop particulate matter collection systems.
- *EPA Comment I(F):* [4.1.11(e)] The phrase “for review and approval” was added to this requirement.
- *EPA Comment II(15):* [4.1.14] A requirement was added requiring restricted access to the facility’s premises.

- *EPA Comment I(C)*: [Table 4.3.2] HCl performance testing was added to this table.
- *Correction*: [Table 4.3.2, Footnote (1)] The word “shall” replaced the word “will” in the footnote.
- *EPA Comments I(A), II(1), II(2)*: [4.3.6] An annual slag testing requirement for metals was added to the permit.

DOCUMENTS/NOTIFICATIONS

Upon the Director’s acceptance of this final determination, a copy of the final determination, final permit, and the updated “IPR Files” folder (which include all comments submitted) will be made available for review on DAQ’s website (both on the page linked below under the “Popular Searches” tab and on the Application Xtender database) accessible at:

<https://dep.wv.gov/daq/permitting/Pages/NSR-Permit-Applications.aspx>

Additionally, notification of the issuance of the permit shall be sent to the applicant, EPA, Federal Land Managers (FLMs), and all those who provided written or oral comments on the permitting action.

FINAL DETERMINATION

It is the view of the writer, in consultation with Jon McClung (who reviewed the air dispersion modeling report), that after consideration of all comments received, all available information indicates Nucor Steel West Virginia LLC’s proposed construction of a new sheet steel mill near Apple Grove, Mason County, WV, will meet the emission limitations and conditions set forth in the final permit and will comply with all currently applicable state and federal air quality management rules and standards. It is, therefore, the recommendation of the undersigned that the DAQ issue Permit Number R14-0039.

Joseph R. Kessler, PE
Engineer

R14-0039
Nucor Steel West Virginia LLC
West Virginia Steel Mill