

Fact Sheet



For Final Renewal Permitting Action Under 45CSR30 and Title V of the Clean Air Act

Permit Number: **R30-00300002-2019**
Application Received: **February 20, 2019**
Plant Identification Number: **003-00002**
Permittee: **Continental Brick Company**
Facility Name: **Martinsburg Facility**
Mailing Address: **154 Charles Town Road, Martinsburg, WV 25405**

Physical Location: Martinsburg, Berkeley County, West Virginia
UTM Coordinates: 245.4 km Easting • 4,368.7 km Northing • Zone 18
Directions: From Interstate 81 take Exit 12, travel east on State Route 9 approximately 3 miles. The facility is on the right side of State Rte. 9.

Facility Description

The Martinsburg Facility is a face brick manufacturing operation which includes quarry to final brick production and storage. It operates under SIC Code 3251. The weathered Martinsburg Shale is quarried by the use of pans, and then crushed, screened, wetted, mixed in a pug mill, vacuum extruded, trimmed and cut to form the final shape of the green face bricks. Green face bricks then pass through the warming room, dryers, and kiln to remove the moisture in a controlled manner. Fired bricks are sorted and packaged for sale. Bricks not meeting the specifications (waste bricks) are disposed on property.

Emissions Summary

Plantwide Emissions Summary [Tons per Year]		
Regulated Pollutants	Potential Emissions	2018 Actual Emissions
Carbon Monoxide (CO)	88.98	17.05
Nitrogen Oxides (NO _x)	39.66	4.98
Particulate Matter (PM _{2.5})	75.18	4.13
Particulate Matter (PM ₁₀)	130.33	9.05
Total Particulate Matter (TSP)	189.88	17.45
Sulfur Dioxide (SO ₂)	122.19	9.52
Volatile Organic Compounds (VOC)	1.91	0.35

PM₁₀ is a component of TSP.

Hazardous Air Pollutants	Potential Emissions	2018 Actual Emissions
Hydrogen Fluoride (HF)	166.30	32.66
Hydrogen Chloride (HCl)	12.29	2.41
Non-HF/HCl HAPs	0.72	0.12

Some of the above HAPs may be counted as PM or VOCs.

Title V Program Applicability Basis

This facility has the potential to emit 122.19 TPY of SO₂, 130.33 TPY of PM₁₀, 166.30 TPY of HF, and 12.29 TPY of HCl. Due to this facility's potential to emit over 100 tons per year of criteria pollutant, over 10 tons per year of a single HAP, and over 25 tons per year of aggregate HAPs, Continental Brick Company is required to have an operating permit pursuant to Title V of the Federal Clean Air Act as amended and 45CSR30.

Legal and Factual Basis for Permit Conditions

The State and Federally-enforceable conditions of the Title V Operating Permits are based upon the requirements of the State of West Virginia Operating Permit Rule 45CSR30 for the purposes of Title V of the Federal Clean Air Act and the underlying applicable requirements in other state and federal rules.

This facility has been found to be subject to the following applicable rules:

Federal and State:	45CSR2 45CSR6 45CSR7 45CSR10 45CSR11 45CSR13	Particulate Air Pollution from Combustion of Fuel in Indirect Head Exchangers. Open burning prohibited. To Prevent And Control Particulate Matter Air Pollution From Manufacturing Processes And Associated Operations To Prevent And Control Air Pollution From The Emission Of Sulfur Oxides Standby plans for emergency episodes. Permits For Construction, Modification, Relocation And Operation Of Stationary
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		Sources Of Air Pollutants, Notification Requirements, Administrative Updates, Temporary Permits, General Permits, And Procedures For Evaluation
	WV Code § 22-5-4 (a) (14)	The Secretary can request any pertinent information such as annual emission inventory reporting.
	45CSR30	Operating permit requirement.
	45CSR34	Emission Standards For Hazardous Air Pollutants
	40 C.F.R. Part 61	Asbestos inspection and removal
	40 C.F.R. Part 63, Subpart JJJJ	Brick MACT
	40 C.F.R. Part 82, Subpart F	Ozone depleting substances
State Only:	45CSR4	No objectionable odors.

Each State and Federally-enforceable condition of the Title V Operating Permit references the specific relevant requirements of 45CSR30 or the applicable requirement upon which it is based. Any condition of the Title V permit that is enforceable by the State but is not Federally-enforceable is identified in the Title V permit as such.

The Secretary's authority to require standards under 40 C.F.R. Part 60 (NSPS), 40 C.F.R. Part 61 (NESHAPs), and 40 C.F.R. Part 63 (NESHAPs MACT) is provided in West Virginia Code §§ 22-5-1 *et seq.*, 45CSR16, 45CSR34 and 45CSR30.

Active Permits/Consent Orders

Permit or Consent Order Number	Date of Issuance	Permit Determinations or Amendments That Affect the Permit (<i>if any</i>)
R13-0682B	April 4, 2014	PD16-053 (10/18/2016 Veneer Saw)

Conditions from this facility's Rule 13 permit(s) governing construction-related specifications and timing requirements will not be included in the Title V Operating Permit but will remain independently enforceable under the applicable Rule 13 permit(s). All other conditions from this facility's Rule 13 permit(s) governing the source's operation and compliance have been incorporated into this Title V permit in accordance with the "General Requirement Comparison Table," which may be downloaded from DAQ's website.

Determinations and Justifications

Equipment Changes

Since the previous permitting action, a ThinStone TXS-2600 Whisper Veneer Saw was installed in 2016. It is a wet cutting saw, and it is not a source of emissions. It was determined on October 18, 2016 in PD16-053 that this saw did not require an air permit. It was also addressed in R30-00300002-2014 (OP01) on October 25, 2016. This saw was added to the emission units table, but no additional permit requirements apply to it.

40CFR63, Subpart JJJJ—National Emission Standards for Hazardous Air Pollutants for Brick and Structural Clay Products Manufacturing

Section 4.6 of the previous Title V renewal contained a compliance plan to address HF emissions rather than require the permittee to submit a case-by-case MACT determination, as was required in condition 4.1.9 of the previous Title V renewal. This decision was made in anticipation of a finalized version of 40CFR63, Subpart JJJJ by June 30, 2015. This rule has been finalized. Applicable requirements from 40CFR63, Subpart JJJJ were included with this renewal, and the old compliance plan was removed along with condition 4.1.9 of the previous Title V renewal.

Kiln No. 1 and Kiln No. 2 (emission point IDs: K1E and K2E) are considered by this subpart to be small tunnel kilns since their design capacities are below 9.07 megagrams per hour (Mg/hr) (10 tons per hour (tph)) of fired product, as specified in 40CFR§63.8390(b)(1). The Periodic Kiln (emission point ID: P-K3E) is subject to the periodic kiln requirements of this subpart. As specified in 40CFR§§63.8390(d) and (f), all three kilns are considered existing kilns in this subpart since they were constructed before December 18, 2014. As stated in Table 7 of this subpart, the facility must comply with the requirements of this subpart no later than December 26, 2018.

These new permit requirements are summarized in the table below.

Permit Condition	Summary of Permit Condition	Regulatory Citation
4.1.18.	HF, HCl, Cl ₂ , PM, and Hg Emission Limits	45CSR34; 40CFR§63.8405(a); Table 1 of 40CFR63, Subpart JJJJ
4.1.19.	Operating Limits: VE and Process Rate	45CSR34; 40CFR§63.8405(b); Table 2 of 40CFR63, Subpart JJJJ
4.1.20.	Work Practice Standards	45CSR34; 40CFR§63.8405(c) and 40CFR§§63.8410(b), (c), and (d); Table 3 of 40CFR63, Subpart JJJJ
4.1.21.	Process Changes	45CSR34; 40CFR§63.8410(a)(2)
4.1.22.	General Requirements for Complying with 40CFR63, Subpart JJJJ	45CSR34; 40CFR§§63.8420(a), (b), (e), and (f)
4.1.23.	Operation, Maintenance, and Monitoring Plan	45CSR34; 40CFR§63.8420(c); 40CFR§§63.8425(a), (b)(1)-(b)(3), (b)(5)-(b)(12), (c), and (d)
4.1.24.	Initial Compliance with Emission Limitations and Work Practice Standards	45CSR34; 40CFR§§63.8455(a) and (b); Table 5 of 40CFR63, Subpart JJJJ
4.1.25.	Continuous Compliance	45CSR34; 40CFR§63.8470(a); Table 6 of 40CFR63, Subpart JJJJ

Permit Condition	Summary of Permit Condition	Regulatory Citation
4.1.26.	Applicable General Provisions in 40CFR§§63.1 through 63.16	45CSR34; 40CFR§63.8505
4.2.2.	Monitoring Installation, Operation, and Maintenance	45CSR34; 40CFR§§63.8450(a) and (h)
4.2.3.	Monitoring and Date Collection to Demonstrate Compliance	45CSR34; 40CFR§63.8465
4.3.6.	Performance Test within 180 Days of Compliance Date	45CSR34; 40CFR§63.8435
4.3.7.	Performance Test Schedule	45CSR34; 40CFR§63.8440
4.3.8.	Performance Testing and Establishing Operating Limits	45CSR34; 40CFR§§63.8445(a)-(f) and (g)(1); Table 4 of 40CFR63, Subpart JJJJ
4.3.9.	VE Testing	45CSR34; 40CFR§63.8470(e)
4.4.8.	40CFR63, Subpart JJJJ Recordkeeping Requirements	45CSR34; 40CFR§§63.8490(a)(1), (a)(2), (b), (c)(2)-(4), (c)(6)-(11)
4.4.9.	Retention of Records	45CSR34; 40CFR§63.8495
4.5.4.	Notification of Compliance Status	45CSR34; 40CFR§63.8455(c)
4.5.5	Deviations Reporting	45CSR34; 40CFR§63.8470(c)
4.5.6.	Notifications Required by 40CFR63, Subpart JJJJ	45CSR34; 40CFR§§63.8480(a), (b), and (c)(1) and (2); Table 8 of 40CFR63, Subpart JJJJ
4.5.7.	Reporting Required by 40CFR63, Subpart JJJJ	45CSR34; 40CFR§§63.8485(a), (b)(5), (c)(1)-(3), (c)(5)-(9), (d), (e), and (f); Table 9 of 40CFR63, Subpart JJJJ

Apart from updating this permit to the current Title V boilerplate, there are no other significant changes being made with this renewal.

Non-Applicability Determinations

The following requirements have been determined not to be applicable to the subject facility due to the following:

- 45CSR5 --- The coal handling operations are regulated by 45CSR7 and therefore are exempt in accordance with 45CSR§§5-2.4.b. & 2.14.
- 45CSR17 --- The facility is regulated by 45CSR7 and therefore exempt in accordance with 45 CSR§7-10.2 and 45CSR§17-6.
- 40 CFR Part 60, Subpart Y --- The coal handling facility processes less than 200 tons per day.

- 40 CFR Part 60, Subpart OOO --- Excluding existing Crusher No. 1, all the other shale processing equipment known as the grinding building commenced construction prior to August 31, 1983 and have not been reconstructed or modified. Crusher No.1 was replaced with a crusher of equal size in 2006, therefore in accordance with 40 CFR §60.670(d)(1) it is exempt from the provisions of 40 CFR §§60.672, 60.674, and 60.675.
- 40 CFR Part 64 --- There are no pollutant specific emissions units (PSEU) at this facility that satisfy all of the applicability criteria requirements of 40 CFR §64.2(a), i.e., that: 1) have pre-control regulated pollutant potential emissions (PTE) equal to or greater than the “major” threshold limits to be classified as a major source; 2) are subject to an emission limitation or standard and; 3) have a control device to achieve compliance with such emission limitation or standard. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Request for Variances or Alternatives

None.

Insignificant Activities

Insignificant emission unit(s) and activities are identified in the Title V application.

Comment Period

Beginning Date: July 19, 2019
Ending Date: August 19, 2019

Point of Contact

All written comments should be addressed to the following individual and office:

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Procedure for Requesting Public Hearing

During the public comment period, any interested person may submit written comments on the draft permit and may request a public hearing, if no public hearing has already been scheduled. A request for public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing. The Secretary shall grant such a request for a hearing if he/she concludes that a public hearing is appropriate. Any public hearing shall be held in the general area in which the facility is located.

Response to Comments (Statement of Basis)

Not applicable.