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**west virginia department of environmental protection**

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Division of Air Quality  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304  
Phone: (304) 926-0475 • FAX: (304) 926-0479

Jim Justice, Governor  
Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

April 28, 2017

Michael Necessary, Authorized Agent  
Greenbrier Smokeless Coal Mining, LLC  
PO Box Q  
4425 Anjean Road  
Rupert, WV 25984

Re: Application Status: Approved  
Greenbrier Smokeless Coal Mining, LLC  
Kuhn Ridge Surface Mine -  
Rock Crushing and Screening Plant  
Registration Application G40-C083  
Plant ID No. 025-00116

Dear Mr. Necessary:

Your application for a General Permit G40-C registration to construct a rock crushing and screening plant as required by Section 5 of 45CSR13 - "Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permit, General Permit, and Procedures for Evaluation" has been approved. The enclosed registration G40-C083 is hereby issued pursuant to Subsection 5.7 of 45CSR13. Please be aware of the notification requirements in the permit which pertain to commencement of construction, modification, or relocation activities; startup of operations; and suspension of operations.

A copy of the complete General Permit G40-C may be obtained from the DAQ's website at the following address: <http://www.dep.wv.gov/daq/permitting/Pages/airgeneralpermit.aspx>.

As a result of this permit, the source is a nonmajor source or area subject to 45CSR30. Therefore, the facility is not subject to the permitting requirements of 45CSR30 and is classified as a deferred source.

In accordance with 45CSR30 – Operating Permit Program, the permittee shall submit a Certified Emissions Statement (CES) and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality. A receipt for the appropriate fee shall be maintained on the premises for which the receipt has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative.

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §§22-5-14.

Should you have any questions, please contact me at (304) 926-0499, ext. 1210.

Sincerely,



Daniel P. Roberts, Engineer Trainee  
NSR Permitting Section

Enclosures

c: Michael C. Necessary, [mnecessary@gscoal.com](mailto:mnecessary@gscoal.com)  
Leslie Lavender, [llavender@gscoal.com](mailto:llavender@gscoal.com)  
Donna Toler, [donnatoler@suddenlink.net](mailto:donnatoler@suddenlink.net)

*West Virginia Department of Environmental Protection*

*Division of Air Quality*

*Jim Justice  
Governor*

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Cabinet Secretary*

# Class II General Permit G40-C Registration to Construct



for the  
Prevention and Control of Air Pollution in regard to the  
Construction, Modification, Relocation,  
Administrative Update and Operation of  
Nonmetallic Mineral Processing Plants

*The permittee identified at the facility listed below is authorized to  
construct the stationary sources of air pollutants identified herein in accordance  
with all terms and conditions of General Permit G40-C.*

**G40-C083**

Issued to:

**Greenbrier Smokeless Coal Mining, LLC  
Kuhn Ridge Surface Mine - Rock Crushing and Screening Plant  
025-00116**

A blue ink signature of William F. Durham, written in a cursive style.

*William F. Durham  
Director*

*Effective: April 28, 2017*

This Class II General Permit Registration will not affect any current permits or General Permit registrations.

Greenbrier Smokeless Coal Mining, LLC has also submitted application G10-D167 for a raw coal screening plant. The proposed rock crushing and screening plant (G40-C083) and proposed raw coal screening plant (G10-D167) will be located on the contiguous or adjacent property and will share a common facility ID number of 025-00116. The proposed rock crushing and screening plant is considered a support facility for the proposed raw coal screening plant since the rock that is being crushed will be used in maintaining the haulroads used to transport the raw coal.

Facility Location: Rupert, Greenbrier County, West Virginia  
Mailing Address: PO Box Q, 4425 Anjean Road Rupert, WV 25635  
Facility Description: Nonmetallic Minerals Processing Plant  
SIC Code: 1429 (Crushed and Broken Stone)  
1221 (Bituminous Coal and Lignite - Surface)  
NAICS Code: 212319 (Other Crushed and Broken Stone Mining and Quarrying)  
212111 (Bituminous Coal and Lignite Surface Mining)  
UTM Coordinates: Easting: 538.84293 km Northing: 4208.53653 km NAD83 Zone 17N  
Lat/Lon Coordinates: Latitude: 38.023696 Longitude: -80.557443 NAD83  
Registration Type: Construction  
Description of Change: Construction of a Powerscreen Premiertrak 400 Jaw Crusher rock crushing and screening plant powered by a Caterpillar C9 ACERT 194kW (260 hp) engine E1 manufactured in 2015. Engine E1 is EU Stage IIIA / US Tier 3 certified. This 400 TPH and 768,000 TPY rock crushing and screening plant will consist of one feed hopper, one crusher, one screen, five belt conveyors and three open storage piles and be used to produce sized rock for drainage ditches and road repair.

Subject to 40CFR60 Subpart OOO? Yes  
Subject to 40CFR60 Subpart IIII? Yes  
Subject to 40CFR60 Subpart JJJJ? No

*Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit or registration issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [ §§ 22B-1-1 et seq. ], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.*

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*As a result of this permit, the source is a nonmajor source or area subject to 45CSR30. Therefore, the facility is not subject to the permitting requirements of 45CSR30 and is classified as a deferred source.*

**All registered facilities under Class II General Permit G40-C are subject to Sections 1.0, 1.1, 2.0, 3.0, and 4.0.**

The following sections of Class II General Permit G40-C apply to the registrant:

- Section 5 Nonmetallic Mineral Processing Operations
- Section 6 Standards of Performance for Nonmetallic Mineral Processing Plants that Commenced Construction, Reconstruction or Modification after August 31, 1983 but before April 22, 2008 (40 CFR 60 Subpart OOO)
- Section 7 Standards of Performance for Nonmetallic Mineral Processing Plants that Commenced Construction, Reconstruction or Modification on or after April 22, 2008. (40 CFR 60 Subpart OOO)
- Section 8 Reciprocating Internal Combustion Engines (R.I.C.E.)
- Section 9 Tanks
- Section 10 Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40 CFR 60 Subpart IIII)
- Section 11 Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (40 CFR 60 Subpart JJJJ)

**Emission Units**

Equip-ment ID No.	Date of Construction, Reconstruction or Modification <sup>1</sup>	G40-C Applicable Sections <sup>2</sup>	Emission Unit Description	Maximum Permitted Throughput		Control Equip-ment <sup>3</sup>	Associated Transfer Points		
				TPH	TPY		Location: B -Before A -After	ID No.	Control Equip-ment <sup>3</sup>
BS-01	C 2017	5 and 7	Front-end Loader Dump Bin - 15 tons capacity - receives material from the overburden area via a front-end loader and feeds in onto BC-01	400	768,000	PW	B A	TP-01 TP-02	UD-PW TC-PE
BC-01	C 2017	5 and 7	Belt Conveyor - receives raw material from BS-01 and transfers it to CR-01	400	768,000	NC	B A	TP-02 TP-03	TC-PE TC-FE
CR-01	C 2017	5 and 7	Jaw Crusher - receives raw material from BC-01, crushes it from/to 4" x 0 and then drops it onto BC-02	400	768,000	FE	B A	TP-03 TP-04	TC-FE TC-FW
BC-02	C 2017	5 and 7	Belt Conveyor - receives crushed material from CR-01 and transfers it to SS-01	400	768,000	NC	B A	TP-04 TP-05	TC-FW TC-PW
SS-01	C 2017	5 and 7	Double Deck Screen - receives crushed rock from BC-02, classifies it and 3" rock drops onto BC-03, 2" rock drops onto BC-04 and <2" rock drops onto BC-05	400	768,000	PW	B A A A	TP-05 TP-06 TP-09 TP-12	TC-PW TC-FE TC-FE TC-FE
BC-03	C 2017	5 and 7	Belt Conveyor - receives 3" sized rock from SS-01 and transfers it onto OS-01	400	768,000	NC	B A	TP-06 TP-07	TC-FE TC-MDH
OS-01	C 2017	5 and 7	3" Sized Rock Open Stockpile - maximum 2,000 tons capacity, 3,869 ft <sup>2</sup> base area, and 20' height - receives 3" sized rock from BC-03, stores it and then a front-end loader reclaims it and loads it to trucks	400	768,000	WS	B A	TP-07 TP-08	TC-MDH LO-MDH
BC-04	C 2017	5 and 7	Belt Conveyor - receives 2" sized rock from SS-01 and transfers it onto OS-02	400	768,000	NC	B A	TP-09 TP-10	TC-FE TC-MDH
OS-02	C 2017	5 and 7	2" Sized Rock Open Stockpile - maximum 2,000 tons capacity, 3,869 ft <sup>2</sup> base area, and 20' height - receives 2" sized rock from BC-04, stores it and then a front-end loader reclaims it and loads it to trucks	400	768,000	WS	B A	TP-10 TP-11	TC-MDH LO-MDH
BC-05	C 2017	5 and 7	Belt Conveyor - receives <2" sized rock from SS-01 and transfers it onto OS-03	400	768,000	NC	B A	TP-12 TP-13	TC-FE TC-MDH

Equip-ment ID No.	Date of Construction, Reconstruction or Modification <sup>1</sup>	G40-C Applicable Sections <sup>2</sup>	Emission Unit Description	Maximum Permitted Throughput		Control Equip-ment <sup>3</sup>	Associated Transfer Points		
				TPH	TPY		Location: B -Before A -After	ID No.	Control Equip-ment <sup>3</sup>
OS-03	C 2017	5 and 7	<2" Sized Rock Open Stockpile - maximum 2,000 tons capacity, 3,869 ft <sup>2</sup> base area, and 20' height - receives -2" sized rock from BC-05, stores it and then a front-end loader reclaims it and loads it to trucks	400	768,000	WS	B A	TP-13 TP-14	TC-MDH LO-MDH

<sup>1</sup> In accordance with 40 CFR 60 Subpart OOO, for affected facilities constructed, re-constructed or modified after April 22, 2008, visible emissions from any screen, transfer point on a belt conveyor, storage bin or from any other affected facility shall not exceed seven percent (7%) opacity and any crusher shall not exceed twelve percent (12%) opacity.

<sup>2</sup> All registered affected facilities under Class II General Permit G40-C are subject to Sections 1.0, 1.1, 2.0, 3.0 and 4.0.

<sup>3</sup> Control Device Abbreviations: FE - Full Enclosure; FW - Full Enclosure with Water Sprays; PE - Partial Enclosure; PW - Partial Enclosure with Water Sprays; WS - Water Sprays; TC - Telescopic Chute; UC - Under-pile Conveyor; MDH - Minimize Drop Height; and NC - No Control.

### Emission Limitations

- Proposed Emissions - Greenbrier Smokeless Coal Mining, LLC Kuhn Ridge Surface Mine - Rock Crushing and Screening Plant	Maximum Controlled PM Emissions		Maximum Controlled PM <sub>10</sub> Emissions	
	lb/hour	TPY	lb/hour	TPY
<b>Fugitive Emissions</b>				
Open Storage Pile Emissions	0.04	0.16	0.02	0.08
Unpaved Haulroad Emissions	57.51	251.88	12.10	52.99
Paved Haulroad Emissions	0.00	0.00	0.00	0.00
<i>Fugitive Emissions Total</i>	<i>57.54</i>	<i>252.04</i>	<i>12.12</i>	<i>53.07</i>
<b>Point Source Emissions</b>				
Crushing/Screening Emissions	2.58	11.28	1.23	5.37
Transfer Point Emissions	0.02	0.07	0.01	0.04
Engine E1	0.09	0.08	0.09	0.08
<i>Point Source Emissions Total (PTE)</i>	<i>2.68</i>	<i>11.44</i>	<i>1.33</i>	<i>5.49</i>
<b>FACILITY EMISSIONS TOTAL</b>	<b>60.23</b>	<b>263.48</b>	<b>13.45</b>	<b>58.56</b>

### Storage Tanks

Source ID No.	Status	Content	Design Capacity			Orientation	G40-C Applicable Section(s)
			Volume	Diameter	Throughput		
T1	Existing	Diesel	1,000 gal	4'	8,000 gal/hr	Horizontal	9

### Reciprocating Internal Combustion Engines

Emission Unit ID No.	Emission Unit Description (Make, Model, Serial No., etc.)	Date of Manufacture	Date of Installation	Design Capacity (Bhp/rpm)
E1	Caterpillar C9 ACERT 194 kW (260 hp)	2015	2016	260 / 1,600

**Reciprocating Internal Combustion Engines (R.I.C.E.) Information**

Emission Unit ID No.	Subject to 40CFR60 Subpart IIII?	Subject to 40CFR60 Subpart JJJJ?	Subject to Sections 9.1.4/9.2.1 (Catalytic Reduction Device)
E1	Yes	No	No

**Engines**

Source ID	Emission Source	Pollutant	Maximum Hourly Emissions (lb/hr)	Maximum Annual Emissions (tpy)
E1	Engine	Nitrogen Oxides (NO <sub>x</sub> )	1.28	1.22
		Carbon Monoxide (CO)	1.50	1.44
		Particulate Matter (PM<10 microns)	0.09	0.08
		Volatile Organic Compounds (VOCs)	0.43	0.42
		Sulfur Dioxide (SO <sub>2</sub> )	0.53	0.51
		Total HAP	0.01	0.03

**Control Devices - *Not Applicable***

Control Device ID No.	Source ID No.	Date Constructed, Reconstructed, or Modified	Emission Unit Description (Make, Model, Serial No., etc.)