

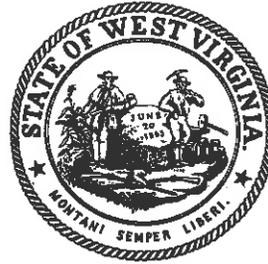
*West Virginia Department of Environmental Protection*

*Division of Air Quality*

*Earl Ray Tomblin  
Governor*

*Randy C. Huffman  
Cabinet Secretary*

# Class II General Permit G10-D Registration to Construct



for the  
Prevention and Control of Air Pollution in regard to the  
Construction, Modification, Relocation,  
Administrative Update and Operation of  
Coal Preparation Plants and Coal Handling Operations

*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 G10-D.*

**G10-D158**

Issued to:

**Ramaco Resources, LLC  
Elk Creek Processing Plant  
045-00146**

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

*William F. Durham  
Director*

*Effective: July 31, 2015*

This Class II General Permit Registration does not affect any existing permits or general permit registrations.

Facility Location: Verner, McDowell County, West Virginia  
Mailing Address: 250 West Main Street, Lexington, KY 40507  
Facility Description: Wet Wash Coal Preparation Plant  
SIC Code: 1222 (Bituminous Coal & Lignite - Underground)  
NAICS Code: 212112 (Bituminous Coal Underground Mining)  
UTM Coordinates: Easting: 426.94 • Northing: 4170.93 km • NAD83 Zone 17N  
Lat/Lon Coordinates: Latitude: 37.682666 • Longitude: -81.828579 • NAD83  
Registration Type: Construction  
Description of Change: Application to construct an 800 TPH and 4,285,715 TPY wet wash coal preparation plant and railcar loadout.

Subject to 40CFR60 Subpart Y? Yes

Subject to 40CFR60 Subpart IIII? No

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 or area source 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 G10-D are subject to Sections 1.0, 1.1, 2.0, 3.0 and 4.0.**

The following sections of Class II General Permit G10-D apply to the registrant:

- Section 5 Coal Preparation and Processing Plants and Coal Handling Operations
- Section 6 Standards of Performance for Coal Preparation and Processing Plants that Commenced Construction, Reconstruction or Modification after October 27, 1974, and on or before April 27, 2008 (40CFR60 Subpart Y)
- Section 7 Standards of Performance for Coal Preparation and Processing Plants that Commenced Construction, Reconstruction or Modification after April 28, 2008, and on or before May 27, 2009 (40CFR60 Subpart Y)
- Section 8 Standards of Performance for Coal Preparation and Processing Plants that Commenced Construction, Reconstruction or Modification after May 27, 2009 (40CFR60 Subpart Y)
- Section 9 Reciprocating Internal Combustion Engines (R.I.C.E.)
- Section 10 Tanks
- Section 11 Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40CFR60 Subpart III)
- Section 12 Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (40CFR60 Subpart JJJ)

**Emission Units**

Equipment ID #	Date of Construction, Reconstruction or Modification <sup>1</sup>	G10-D Applicable Sections <sup>2</sup>	Emission Unit Description	Maximum Capacity		Control Device <sup>3</sup>	Associated Transfer Points		
				TPH	TPY		Location: B -Before A -After	ID. No.	Control Device <sup>3</sup>
<b>Raw Coal Circuit</b>									
BS-1	C 2015	5 and 8	Truck Dump Bin #1 - 200 tons capacity - receives raw coal from truck dumping and feeds it onto BC-1	500	2,380,953	PW	B A	TP-1 TP-3	UD-PW UD-PW
BC-1	C 2015	5 and 8	Belt Conveyor - receives raw coal from BS-1 and transfers it to BS-3	500	2,380,953	N	B A	TP-3 TP-5	UD-PW TC-WS
BS-3	C 2015	5 and 8	Raw Coal Silo #1 - 1,650 tons capacity - receives raw coal from BC-1, stores it and then drops it onto BC-4	500	2,380,953	FE	B A	TP-5 TP-11	TC-WS TC-WS
BS-2	C 2015	5 and 8	Truck Dump Bin #2 - 200 tons capacity - receives raw coal from truck dumping and feeds it onto BC-2	500	2,380,953	PW	B A	TP-2 TP-4	UD-PW UD-PW
BC-2	C 2015	5 and 8	Belt Conveyor - receives raw coal from BS-2 and transfers it to BS-4, BC-2.1 or OS-01	500	2,380,953	N	B A A A	TP-4 TP-6 TP-6 TP-8	UD-PW TC-WS TC-WS TC-WS
BS-4	C 2015	5 and 8	Raw Coal Silo #2 - 1,400 tons capacity - receives raw coal from BC-2, stores it and then drops it onto BC-4	500	1,071,429	FE	B A	TP-6 TP-12	TC-WS TC-WS
BC-2.1	C 2015	5 and 8	Belt Conveyor - receives raw coal from BC-2 and transfers it to BS-5	500	238,095	N	B A	TP-6 TP-7	TC-WS TC-WS
BS-5	C 2015	5 and 8	Raw Coal Silo #3 - 950 tons capacity - receives raw coal from BC-2, stores it and then drops it onto BC-4	500	238,095	FE	B A	TP-7 TP-13	TC-WS TC-WS
OS-01	C 2015	5 and 8	Raw Coal Open Storage Pile - maximum 12,000 ton capacity, 11,300 ft <sup>2</sup> base area and 80 ft height - receives raw coal from BC-2, stores it and then underground feeders transfer it onto BC-3	500	1,071,429	WS	B A	TP-8 TP-9	TC-WS LO-UC

Equipment ID #	Date of Construction, Reconstruction or Modification <sup>1</sup>	G10-D Applicable Sections <sup>2</sup>	Emission Unit Description	Maximum Capacity		Control Device <sup>3</sup>	Associated Transfer Points		
				TPH	TPY		Location: B - Before A - After	ID. No.	Control Device <sup>3</sup>
BC-3	C 2015	5 and 8	Belt Conveyor - receives raw coal from OS-01 via underground feeders and transfers it to BC-4	500	1,071,429	N	B A	TP-9 TP-10	LO-UC TC-PE
BC-4	C 2015	5 and 8	Belt Conveyor - receives raw coal from BC-3, BS-3, BS-4 and BS-5 and transfers it to DD-1	800	4,761,906	N	B B B A	TP-10 TP-11 TP-12 TP-13 TP-14	TC-PE TC-WS TC-WS TC-WS TC-FE
DD-1	C 2015	5 and 8	Double Deck Screen - receives raw coal from BC-4, classifies it and then drops +4" oversize refuse to BC-5 (see Refuse Circuit below), the -4" raw coal to RB-1, and the -4" x 0 raw coal to BC-6	800	4,761,906	FE	B A A A	TP-14 TP-15 TP-16 TP-17	TC-FE TC-FE TC-FE TC-FE
RB-1	C 2015	5 and 8	Breaker - receives +4" sized raw coal from DD-1, crushes it and then drops it to BC-6	180	1,071,429	FE	B A	TP-16 TP-17	TC-FE TC-FE
BC-6	C 2015	5 and 8	Belt Conveyor - receives sized raw coal from DD-1 and RB-1 and transfers it to the wet wash preparation plant	800	4,285,715	N	B A	TP-17 TP-20	TC-FE TC-FW
<b>Clean Coal Circuit</b>									
BC-12	C 2015	5 and 8	Belt Conveyor - receives clean coal from the wet wash prep plant and transfers it to BC-13	500	1,500,000	N	B A	TP-28 TP-29	TC-FW TC-WS
BC-13	C 2015	5 and 8	Belt Conveyor - receives clean coal from BC-12 and transfers it to OS-2 or BC-14	500	1,500,000	N	B A	TP-29 TP-30	TC-WS TC-WS
OS-2	C 2015	5 and 8	Clean Coal Open Storage Pile - maximum 12,400 ton capacity, 13,280 ft <sup>2</sup> base area and 70 ft height - receives clean coal from BC-13, stores it and underground feeders transfer it onto BC-16	500	500,000	WS	B A	TP-30 TP-33	TC-WS LO-UC
BC-14	C 2015	5 and 8	Belt Conveyor - receives clean coal from BC-13 and transfers it to OS-3 or BC-15	500	1,000,000	N	B A	TP-30 TP-31	TC-WS TC-WS
OS-3	C 2015	5 and 8	Clean Coal Open Storage Pile - maximum 14,400 ton capacity, 15,400 ft <sup>2</sup> base area and 70 ft height - receives clean coal from BC-13, stores it and underground feeders transfer it onto BC-16	500	500,000	WS	B A	TP-31 TP-34	TC-WS LO-UC
BC-15	C 2015	5 and 8	Belt Conveyor - receives clean coal from BC-14 and transfers it to OS-4	500	500,000	N	B A	TP-31 TP-32	TC-WS TC-WS
OS-4	C 2015	5 and 8	Clean Coal Open Storage Pile - maximum 10,100 ton capacity, 11,300 ft <sup>2</sup> base area and 67 ft height - receives clean coal from BC-15, stores it and underground feeders transfer it onto BC-16	500	500,000	WS	B A	TP-32 TP-35	TC-WS LO-UC
BC-16	C 2015	5 and 8	Belt Conveyor - receives clean coal from OS-2, OS-3 and OS-4 and transfers it to BS-8	4,000	1,500,000	N	B B B A	TP-33 TP-34 TP-35 TP-36	LO-UC LO-UC LO-UC TC-WS
BS-8	C 2015	5 and 8	Railcar Loadout Bin - 450 tons capacity - receives clean coal from BC-16 and loads it into railcars for shipment	4,000	1,500,000	FE	B A	TP-36 TP-37	TC-WS LR-TC
<b>Refuse Circuit</b>									
BC-5	C 2015	5 and 8	Belt Conveyor - receives +4" oversize refuse from DD-1 (see Raw Coal Circuit above) and transfers it to either BS-6 or BC-8 (see below)	80	476,191	N	B A	TP-15 TP-18	TC-FE TC-WS
BS-6	C 2015	5 and 8	Scalped Rock and Emergency Refuse Bin - 300 tons capacity - receives +4" oversize refuse from BC-5, stores it and then loads it into trucks from shipment to the refuse disposal area	80	20,000	FE	B B A	TP-18 TP-19	TC-WS TC-WS
BC-7	C 2015	5 and 8	Belt Conveyor - receives refuse from the wet wash prep plant and transfers it to BC-8	500	2,785,715	N	B A	TP-21 TP-22	TC-FW TC-WS
BC-8	C 2015	5 and 8	Belt Conveyor - receives refuse from the wet wash prep plant and +4" oversize refuse from BC-5 and transfers it to BC-9	500	3,261,906	N	B B A	TP-22 TP-18 TP-23	TC-WS TC-WS TC-WS
BC-9	C 2015	5 and 8	Belt Conveyor - receives refuse from BC-8 and transfers it to BC-10	500	3,261,906	N	B A	TP-23 TP-24	TC-WS TC-WS
BC-10	C 2015	5 and 8	Belt Conveyor - receives refuse from BC-9 and transfers it to BC-11	500	3,261,906	N	B A	TP-24 TP-25	TC-WS TC-WS
BC-11	C 2015	5 and 8	Belt Conveyor - receives refuse from BC-10 and transfers it to BS-7	500	3,261,906	N	B A	TP-25 TP-26	TC-WS TC-WS

Equipment ID #	Date of Construction, Reconstruction or Modification <sup>1</sup>	G10-D Applicable Sections <sup>2</sup>	Emission Unit Description	Maximum Capacity		Control Device <sup>3</sup>	Associated Transfer Points		
				TPH	TPY		Location: B -Before A -After	ID. No.	Control Device <sup>3</sup>
BS-7	C 2015	5 and 8	Truck Loadout Bin - 300 tons capacity - receives refuse from BC-11 and loads it to trucks which haul it to the refuse disposal area	500	3,261,906	FE	B A	TP-26 TP-27	TC-WS TC-WS

- <sup>1</sup> In accordance with 40 CFR 60 Subpart Y, coal processing and conveying equipment, coal storage systems, and coal transfer and loading systems constructed, reconstructed, or modified after April 28, 2008 shall not discharge gases which exhibit 10 percent opacity or greater. For open storage piles constructed, reconstructed, or modified after May 27, 2009, the permittee shall prepare and operate in accordance with a fugitive coal dust emissions control plan that is appropriate for site conditions.
- <sup>2</sup> All registered affected facilities under Class II General Permit G10-D 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; and N - No Control.

**Emission Limitations**

Facility-wide Emissions - G10-D158 Ramaco Resources, LLC Elk Creek Processing 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	0.15	0.64	0.07	0.30
Unpaved Haulroad Emissions	87.85	176.82	25.89	52.17
Paved Haulroad Emissions	0.00	0.00	0.00	0.00
<i>Fugitive Emissions Total</i>	<i>87.85</i>	<i>177.45</i>	<i>25.95</i>	<i>52.49</i>
<b>Point Source Emissions</b>				
Equipment Emissions	16.72	49.76	7.86	23.39
Transfer Point Emissions	3.03	3.84	1.43	1.82
<i>Point Source Emissions Total (PTE)</i>	<i>19.75</i>	<i>53.60</i>	<i>9.29</i>	<i>25.20</i>
<b>FACILITY EMISSIONS TOTAL</b>	<b>107.59</b>	<b>231.06</b>	<b>35.24</b>	<b>77.69</b>

**Control Devices - Not Applicable**

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

**Engines - Not Applicable**

Source ID No.	Emission Source ID No.	Pollutant	Maximum Emissions	
			lb/hour	TPY
		Nitrogen Oxides (NO <sub>x</sub> )		
		Carbon Monoxide (CO)		
		Volatile Organic Compounds (VOC)		
		Formaldehyde		

**Reciprocating Internal Combustion Engines - *Not Applicable***

<b>Emission Unit ID No.</b>	<b>Emission Unit Description (Make, Model, Serial No., etc.)</b>	<b>Year Installed</b>	<b>Design Capacity (Bhp/rpm)</b>

**Reciprocating Internal Combustion Engines (R.I.C.E.) Information - *Not Applicable***

<b>Emission Unit ID No.</b>	<b>Subject to 40CFR60 Subpart III?</b>	<b>Subject to 40CFR60 Subpart JJJ?</b>	<b>Subject to Sections 9.1.4/9.2.1 (Catalytic Reduction Device)</b>