



west virginia department of environmental protection

Division of Air Quality
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Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

May 31, 2016

CERTIFIED MAIL

7199 9991 7034 1382 2787

Kermit E. Fincham, Jr., Authorized Representative
Black Castle Mining Company, Inc.
696 Robinson Creek Road
Madison, WV 25130

Re: Application Status: Approved
Black Castle Mining Company, Inc.
Admiral Processing Plant
Registration Application G10-D078G
Plant ID No. 005-00010

Dear Mr. Fincham:

Your application for a General Permit G10-D registration to modify a wet wash coal preparation plant and railcar loadout 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 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.

This permit does not affect 45CSR30 applicability. The source is a nonmajor source subject to 45CSR30.

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

Promoting a healthy environment.

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: Donna Toler, P & A Engineers and Consultants, Inc.

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 Modify



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-D078G

Issued to:

**Black Castle Mining Company, Inc.
Admiral Processing Plant
005-00010**

A handwritten signature in blue ink, appearing to read "William F. Durham", is written over a horizontal line.

*William F. Durham
Director*

Effective: May 31, 2016

This Class II General Permit Registration will supercede and replace registration G10-D078F approved on May 13, 2015.

Facility Location: Peytona, Boone County, West Virginia
Mailing Address: 696 Robinson Creek Road, Madison, WV 25130
Facility Description: Wet Wash Coal Preparation Plant
SIC Codes: 1221 (Bituminous Coal & Lignite - Surface)
1222 (Bituminous Coal & Lignite - Underground)
NAICS Codes: 212111 (Bituminous Coal and Lignite Surface Mining)
212112 (Bituminous Coal Underground Mining)
UTM Coordinates: Easting: 439.3473 km Northing: 4219.0478 km NAD83 Zone 17N
Lat/Lon Coordinates: Latitude: 37.271437 Longitude: -81.662311 NAD83
Registration Type: Modification
Description of Change: Modification to add a raw coal bypass conveyor BC-22 rated for 300 TPH and 2,628,000 TPY.

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.

This permit does not affect 45CSR30 applicability. The source is a nonmajor source subject to 45CSR30.

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

Equip-ment ID No.	Date of Construction, Reconstruction or Modification ¹	G10-D Applicable Sections ²	Description	Maximum Capacity		Control Equip-ment ³	Associated Transfer Points		
				TPH	TPY		Location: B -Before A -After	ID. No.	Control Equip-ment ³
Direct Ship / Clean Coal Circuit									
BS-01	M 2013 M 2008	5 and 8	Truck Dump/Raw Coal Bin - 150 ton capacity - three sided roofed enclosure w/water sprays, raw coal loaded in through the top, transfers to belt BC-01 or belt BC-21	1,000	8,760,000	PW	B A A	TP-01 TP-02 TP-51	UD-PW TC-FE TC-FE
BC-21	C 2013	5 and 8	Belt Conveyor - receives raw coal from BS-01 and transfers it to BC-07 (see Deep Mine Raw Coal Circuit below)	1,000	8,760,000	PE	B A	TP-51 TP-52	TC-FE TC-FE
BS-02	M 2008	5 and 7	Truck Dump Bin - three sided roofed enclosure w/water sprays, raw coal loaded in through the top, transfers to belt BC-01	500	2,920,000	PW	B A	TP-03 TP-04	UD-PW TC-FE
BS-03	M 2008	5 and 7	Truck Dump Bin - three sided roofed enclosure w/water sprays, raw coal loaded in through the top, transfers to belt BC-01	500	2,920,000	PW	B A	TP-05 TP-06	UD-PW TC-FE
BC-01	M 2008	5 and 7	Belt Conveyor - collects raw coal from BS-01, BS-02, BS-03 for transfer to scalping building	1,000	8,760,000	FE	B B B A	TP-02 TP-04 TP-06 TP-07	TC-FE TC-FE TC-FE TC-FE
SS-01	M 2008	5 and 7	Scalping Screen - receives raw trucked coal from bins BS-01, BS-02 and BS-03 then transfers into crusher CR-01	1,000	8,760,000	FW	B A	TP-07 TP-08	TC-FE TC-FW
CR-01	M 2008	5 and 7	Crusher - (Scalping Building, +8X0/2X0, 5% moisture content), sized coal transferred to overland conveyor BC-02	1,000	8,760,000	FW	B A	TP-08 TP-09	TC-FW TC-FW
BC-02	M 2008	5 and 7	Overland Belt Conveyor - collects raw coal from crusher then transfers to stockpile OS-01	1,000	8,760,000	PE	B A	TP-09 TP-10	TC-FW TC-PE

Equipment ID No.	Date of Construction, Reconstruction or Modification ¹	G10-D Applicable Sections ²	Description	Maximum Capacity		Control Equipment ³	Associated Transfer Points		
				TPH	TPY		Location: B -Before A -After	ID. No.	Control Equipment ³
OS-01	M 2013 M 2008	5 and 8	Direct Ship Clean Coal Stockpile - maximum 75,000 ton capacity, 108,869 ft ² and 75' height - receives direct ship clean coal from overland conveyor BC-02 via a stacking tube. Coal is reclaimed underpile onto belt BC-13	1,000 in 4,500 out	8,760,000	SW-WS	B A	TP-10 TP-31	TC-PE LO-UC
Trucked Raw Coal Circuit									
BS-06	C 2013	5 and 8	Truck Dump Bin - 100 ton capacity - partially enclosed w/ water sprays - raw coal dumped by trucks in through the top and then it drops to breaker CR-04	300	2,628,000	PW	B A	TP-48 TP-49	UD-PW TC-FE
CR-04	C 2014	5 and 8	Breaker - receives raw coal from BS-06, crushes it and then it drops onto BC-20 or BC-22	300	2,628,000	FE	B A A	TP-49 TP-50 TP-54	TC-FW TC-FE TC-FE
BC-20	C 2013	5 and 8	Belt Conveyor - receives raw coal from CR-04 and transfers it to belt conveyor BC-03 (see Deep Mine Raw Coal Circuit below)	300	2,628,000	PE	B A	TP-50 TP-53	TC-FE TC-FE
BC-22	C 2016	5 and 8	Belt Conveyor - receives raw coal from CR-04 and transfers it to belt conveyor BC-07 (see Deep Mine Raw Coal Circuit below)	300	2,628,000	PE	B A	TP-54 TP-55	TC-FE TC-FE
Deep Mine Raw Coal Circuit									
BC-03	M 2008	5 and 7	Belt Conveyor - collects raw coal from Deep Mine and belt conveyor BC-20 for transfer to belt BC-04	1,000	8,760,000	N	B A	TP-11 TP-12	TC-FE TC-PE
BC-04	M 2008	5 and 7	Belt Conveyor - receives raw coal from belt BC-03 and transfers to raw coal stockpile OS-02 or to belt BC-05	1,000	8,760,000	PE	B A A	TP-12 TP-13 TP-14	TC-PE TC-PE TC-FE
OS-02	M 2013 M 2008	5 and 8	Raw Coal Stockpile - maximum 75,000 ton capacity, 108,869 ft ² and 75' height - receives raw coal from belt BC-04. Raw coal is reclaimed underpile by belt BC-06	1,000	4,380,000	SW-WS	B A	TP-14 TP-16	TC-FE LO-UC
BC-05	M 2008	5 and 7	Belt Conveyor - receives raw coal from belt BC-04 and transfers to raw coal stockpile OS-03	1,000	4,380,000	PE	B A	TP-14 TP-15	TC-FE TC-PE
OS-03	M 2013 M 2008	5 and 8	Raw Coal Stockpile - maximum 50,000 ton capacity, 88,869 ft ² and 75' height - receives raw coal from belt BC-05. Raw coal is reclaimed underpile by belt BC-06	1,000	4,380,000	SW-WS	B A	TP-15 TP-17	TC-PE LO-UC
BC-06	M 2008	5 and 7	Underpile Reclaim Conveyor - receives raw coal underpile from raw coal stockpiles OS-02 and OS-03 then transfers to belt BC-07	1,000	8,760,000	PE	B B A	TP-16 TP-17 TP-18	LO-UC LO-UC TC-FE
BC-07	M 2008	5 and 7	Belt Conveyor - receives raw coal from belt BC-06 and belt BC-21 and belt BC-22 and transfers to crusher CR-02	1,000	8,760,000	PE	B B A	TP-18 TP-52 TP-55 TP-19	TC-FE TC-FE TC-FE TC-FE
CR-02	M 2008	5 and 7	Double Roll Crusher - receives raw coal from belt BC-07, crushes, then transfers to belt BC-08	1,000	8,760,000	FW	B A	TP-19 TP-20	TC-FE TC-FW
BC-08	M 2008	5 and 7	Plant Feed Belt Conveyor - receives crushed raw coal from crusher CR-02 and transfers to the preparation plant	1,000	8,760,000	PE	B A	TP-20 TP-22	TC-FW TC-FW
Clean Coal Circuit									
CR-03	M 2008	5 and 7	Clean Coal Transfer Crusher - receives clean coal from the wet wash circuit, crushes it and transfers it onto exiting belt conveyor BC-09	750	6,570,000	FW	B A	TP-22 TP-23	TC-FW TC-FW
BC-09	M 2008	5 and 7	Belt Conveyor - collects clean coal from crusher CR-03 for transfer to belt BC-10 or belt BC-11	750	6,570,000	PE	B A A	TP-23 TP-24 TP-26	TC-FW TC-FE TC-FE
BC-10	M 2008	5 and 7	Stacking Belt Conveyor - receives clean met coal from belt BC-09 and transfers to stockpile OS-04 via stacking tube	750	1,642,500	PE	B A	TP-24 TP-25	TC-FE TC-PE
BC-11	M 2008	5 and 7	Stacking Belt Conveyor - receives clean met coal from belt BC-09 and transfers to stockpile OS-06 via stacking tube or to reversing conveyor BC-12	750	4,927,500	PE	B A	TP-26 TP-27	TC-FE TC-PE
BC-12	M 2008	5 and 7	Reversing Conveyor - receives clean met coal from belt BC-11 then transfers to either clean coal stockpile OS-05 or to clean coal stockpile OS-07	750	3,285,000	PE	B A A	TP-28 TP-29 TP-30	TC-FE TC-MDH TC-MDH
OS-04	M 2013 M 2008	5 and 8	Clean Met Coal Stockpile - maximum 50,000 ton capacity, 88,869 ft ² and 75' height - receives clean coal via Stacking Tube from stacking belt BC-10, coal is reclaimed underpile via belt BC-13	750 in 4,500 out	1,642,500	SW-WS	B A	TP-25 TP-32	TC-PE LO-UC

Equipment ID No.	Date of Construction, Reconstruction or Modification ¹	G10-D Applicable Sections ²	Description	Maximum Capacity		Control Equipment ³	Associated Transfer Points		
				TPH	TPY		Location: B - Before A - After	ID. No.	Control Equipment ³
OS-06	M 2013 M 2008	5 and 8	Clean Met Coal Stockpile - maximum 50,000 ton capacity, 88,869 ft ² and 75' height - receives clean coal via Stacking Tube from stacking belt BC-11, coal is reclaimed underpile via belt BC-13	750 in 4,500 out	1,642,500	SW-WS	B A	TP-27 TP-34	TC-PE LO-UC
OS-05	M 2013 M 2008	5 and 8	Clean Met Coal Stockpile - maximum 50,000 ton capacity, 88,869 ft ² and 75' height - receives clean coal via reversing belt BC-12, coal is reclaimed underpile via belt BC-13	750 in 4,500 out	1,642,500	SW-WS	B A	TP-29 TP-33	TC-MDH LO-UC
OS-07	M 2013 M 2008	5 and 8	Clean Met Coal Stockpile - maximum 50,000 ton capacity, 88,869 ft ² and 75' height - receives clean coal via reversing belt BC-12, coal is reclaimed underpile via belt BC-13	750 in 4,500 out	1,642,500	SW-WS	B A	TP-30 TP-35	TC-MDH LO-UC
BC-13	M 2008	5 and 7	Reclaim Conveyor - receives clean coal underpile from stockpiles OS-01, OS-4, OS-05, OS-06 and OS-07 for delivery to the loadout surge bin BS-04; loadout weigh bin BS-05 and to railcar via telescopic chute.	4,500	15,330,000	PE	B B B B A	TP-31 TP-32 TP-33 TP-34 TP-35 TP-36	LO-UC LO-UC LO-UC LO-UC TC-FE
BS-04	M 2008	5 and 7	Surge Bin - 400 ton capacity - receives raw coal from conveyor BC-13 and feeds it into weigh bin BS-05	4,500	15,330,000	PW	B A	TP-36 TP-37	TC-FE TC-FE
BS-05	M 2008	5 and 7	Weigh Bin - 240 ton capacity - receives raw coal from surge bin BS-04 and loads it into railcars or it passes through a chute into trucks for shipment (maximum throughput through chute is 228 TPH and 2,000,000 TPY)	4,500	15,330,000	PW	B A A	TP-37 TP-38 TP-47	TC-FE LR-TC LO-MDH
Refuse Circuit									
BC-14	M 2008	5 and 7	Refuse Conveyor - receives refuse from the preparation plant and transfers to refuse conveyor BC-15	500	4,380,000	PE	B A	TP-39 TP-40	TC-FE TC-PE
BC-15	M 2008	5 and 7	Refuse Conveyor - receives refuse from refuse conveyor BC-14 and transfers to refuse conveyor BC-16	500	4,380,000	PE	B A	TP-40 TP-41	TC-PE TC-PE
BC-16	M 2008	5 and 7	Refuse Conveyor - receives refuse from refuse conveyor BC-15 and transfers to refuse conveyor BC-17	500	4,380,000	PE	B A	TP-41 TP-42	TC-PE TC-PE
BC-17	M 2008	5 and 7	Refuse Conveyor - receives refuse from refuse conveyor BC-16 and transfers to refuse conveyor BC-18	500	4,380,000	PE	B A	TP-42 TP-43	TC-PE TC-PE
BC-18	C 2012	5 and 8	Refuse Conveyor - receives refuse from refuse conveyor BC-17 and transfers to refuse conveyor BC-19	500	4,380,000	N	B A	TP-43 TP-44	TC-PE TC-MDH
BC-19	C 2012	5 and 8	Refuse Conveyor - receives refuse from refuse conveyor BC-18 and transfers to disposal area	500	4,380,000	N	B A	TP-44 TP-45	TC-MDH TC-MDH

¹ 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 on or before April 28, 2008 shall not discharge gases which exhibit 20 percent opacity or greater. 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.

² 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.

³ 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; MDH - Minimize Drop Height; and NC - No Control.

Emission Limitations

Facility-wide Emissions - G10-D078G Black Castle Mining Company, Inc. Admiral Processing Plant	Maximum Controlled PM Emissions		Maximum Controlled PM ₁₀ Emissions	
	lb/hour	TPY	lb/hour	TPY
Fugitive Emissions				
Open Storage Pile Emissions	0.83	3.64	0.39	1.71
Unpaved Haulroad Emissions	206.37	903.96	59.64	261.25
Paved Haulroad Emissions	0.00	0.00	0.00	0.00
<i>Fugitive Emissions Total</i>	<i>207.20</i>	<i>907.61</i>	<i>60.03</i>	<i>262.96</i>
Point Source Emissions				
Equipment Emissions	16.70	73.15	7.85	34.38
Transfer Point Emissions	12.12	27.82	5.73	13.16
<i>Point Source Emissions Total (PTE)</i>	<i>28.82</i>	<i>100.96</i>	<i>13.58</i>	<i>47.54</i>
FACILITY EMISSIONS TOTAL	236.02	1,008.57	73.61	310.50

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 _x)		
		Carbon Monoxide (CO)		
		Volatile Organic Compounds (VOC)		
		Formaldehyde		

Reciprocating Internal Combustion Engines - Not Applicable

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

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

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