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-D153B

Issued to:
Caretta Minerals, LLC
Caretta Preparation Plant
047-00145

William F. Durham
Director

Effective: May 13, 2015

This Class II General Permit Registration will supersede and replace general permit registration G10-D153A approved on December 31, 2014.

Facility Location:	Caretta, McDowell County, West Virginia
Mailing Address:	PO Box 309, Prosperity, WV 25909
Facility Description:	Wet Wash Coal Preparation Plant
SIC Code:	1222 (Bituminous Coal & Lignite - Underground)
NAICS Code:	212112 (Bituminous Coal Underground Mining)
UTM Coordinates:	Easting: 439.4629 km Northing: 4131.6812 km NAD Zone 17N
Lat/Lon Coordinates:	Latitude: 37.329828 Longitude: -81.683334 NAD83
Registration Type:	Modification
Description of Change:	Add a Cummins 324 hp/1,800 rpm diesel lean burn four stroke generator to power light plants on the refuse area until permanent lighting can be installed.

Subject to 40CFR60 Subpart Y? 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.

This permit does not affect 45CSR30 applicability. The source remains 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 IIII)	☐☑
Section 12	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (40CFR60 Subpart JJJJ)	☐

Emission Units

Equipment ID #	Date of Construction, Reconstruction or Modification [1]	G10-D Applicable Sections [2]	Emission Unit Description	Maximum Capacity		Control Device [3]	Associated Transfer Points		
				TPH	TPY		Location: B -Before A -After	ID. No.	Control Device [3]
Raw Coal Circuit									
OS-01	C 2013	5 and 8	Raw Coal Open Storage Pile - maximum 25,000 ton capacity, 38,869 ft² base area and 60 ft height - receives raw coal from trucks, stores it and then underground feeders transfer it onto BC-01	500	4,380,000	WS	B A	TP-01 TP-02	UL-MDH LO-UC
BC-01	C 2013	5 and 8	Belt Conveyor - receives raw coal from OS-01 via underground feeders and transfers it to SS-01 (see below)	500	4,380,000	PE	B A	TP-02 TP-03	LO-UC TC-PW
BS-01	Not Yet Constructed *	5 and 8	Truck Dump Bin - 200 ton capacity - receives raw coal from truck dumping and drops it into CR-01 (* Permitted in 2013, but not yet constructed as of December 2014)	500	4,380,000	PW	B A	TP-04 TP-05	UD-PW TC-FW
CR-01	Not Yet Constructed *	5 and 8	Breaker - receives raw coal from BS-01, crushes it to 6" x 0 and then drops it to BC-02 (* Permitted in 2013, but not yet constructed as of December 2014)	500	4,380,000	FW	B A	TP-05 TP-06	TC-FW TC-FW
BC-02	Not Yet Constructed *	5 and 8	Belt Conveyor - receives crushed raw coal from CR-01 and transfers it to SS-01 (* Permitted in 2013, but not yet constructed as of December 2014)	500	4,380,000	PE	B A	TP-06 TP-07	TC-FW TC-PW
SS-01	C 2013	5 and 8	Double Deck Screen - receives raw coal from BC-01 and raw crushed coal from BC-02, classifies it and then drops the oversize refuse to OS-04, the +4" x 0 coal to CR-02, and the -4" x 0 coal to BC-03	500	4,380,000	PW	B B A A A	TP-03 TP-07 TP-32 TP-09 TP-08	TC-PW TC-PW TC-FC TC-FE TC-FE
OS-04	C 2013	5 and 8	Oversize Refuse Open Storage Pile - maximum 5 ton capacity, 50 ft² base area and 8 ft height - receives oversize refuse from SS-01, stores it and then an endloader transfers it to trucks which hauls it to the disposal area	1	5,000	WS	B A A	TP-32 TP-33 TP-31	TC-FC LO-MDH UL-MDH

Equip-ment ID #	Date of Construction, Reconstruction or Modification [1]	G10-D Applicable Sections [2]	Emission Unit Description	Maximum Capacity		Control Device [3]	Associated Transfer Points		
				TPH	TPY		Location: B -Before A -After	ID. No.	Control Device [3]
CR-02	C 2013	5 and 8	Double Roll Crusher - receives raw coal from BS-01, crushes it to 4" x 0 and then drops it to BC-03	500	4,380,000	FE	B A	TP-09 TP-10	TC-FE TC-FE
BC-03	C 2013	5 and 8	Belt Conveyor - receives sized raw coal from SS-01 and CR-02 and transfers it to the wet wash prep plant	500	4,380,000	PE	B B A	TP-08 TP-10 TP-11	TC-FE TC-FE TC-FW
SS-02	C 2014	5 and 8	Double Deck Screen - receives sized raw coal from BC-03, classifies it to 4" x 2" x 0 and then feeds it into the wet wash circuit	500	4,380,000	FW	B A	TP-11 TP-12	TC-FW TC-FW
Clean Coal Circuit									
BC-04	Not Yet Constructed *	5 and 8	Belt Conveyor - receives clean coal from the wet wash prep plant and transfers it to OS-02 (* Permitted in 2013, but not yet constructed as of December 2014)	300	2,628,000	PE	B A	TP-13 TP-14	TC-FW TC-MDH
OS-02	Not Yet Constructed *	5 and 8	Clean Coal Open Storage Pile - maximum 10,000 ton capacity, 18,869 ft^2 base area and 60 ft height - receives clean coal from BC-04, stores it and underground feeders transfer it onto BC-07 or an endloader loads it to trucks for shipment (* Permitted in 2013, but not yet constructed as of December 2014)	300	2,628,000	WS	B A	TP-14 TP-15	TC-MDH LO-MDH
BC-05	C 2013	5 and 8	Belt Conveyor - receives clean coal from the wet wash prep plant and transfers it to BC-06	300	2,628,000	PE	B A	TP-16 TP-17	TC-FW TC-FE
BC-06	C 2013	5 and 8	Belt Conveyor - receives clean coal from BC-05 and transfers it to OS-03 or BC-10	300	2,628,000	PE	B A A	TP-17 TP-18 TP-19	TC-FE TC-PE TC-FE
OS-03	C 2013	5 and 8	Clean Coal Open Storage Pile with a Stacking Tube - maximum 25,000 ton capacity, 38,869 ft^2 base area and 75 ft height - receives clean coal from BC-06, stores it and then underground feeders transfer it onto BC-07 or an endloader loads it to trucks	300	2,628,000	WS	B A A	TP-19 TP-21 TP-27	TC-FE LO-UC LO-MDH
BC-10	C 2014	5 and 8	Belt Conveyor - receives clean coal from BC-06 and transfers it to OS-05	300	2,628,000	PE	B A	TP-18 TP-20	TC-PE TC-PE
OS-05	C 2014	5 and 8	Clean Coal Open Storage Pile with a Stacking Tube - maximum 25,000 ton capacity, 38,869 ft^2 base area and 75 ft height - receives clean coal from BC-10, stores it and then underground feeders transfer it onto BC-07 or an endloader loads it to trucks	300	2,628,000	WS	B A A	TP-20 TP-22 TP-27	TC-PE LO-UC LO-MDH
BC-07	C 2013	5 and 8	Belt Conveyor - receives clean coal from OS-03 and OS-05 and transfers it to BC-08	3,500	2,628,000	PE	B B A	TP-21 TP-22 TP-23	LO-UC LO-UC TC-FE
BC-08	C 2013	5 and 8	Belt Conveyor - receives clean coal from BC-07 and transfers it to BS-02	3,500	2,628,000	PE	B A	TP-23 TP-24	TC-FE TC-FE
BS-02	C 2013	5 and 8	Surge Bin - 400 ton capacity - receives clean coal from BC-08 and drops it to BS-03	3,500	2,628,000	FE	B A	TP-24 TP-25	TC-FE TC-FE
BS-03	C 2013	5 and 8	Loadout Bin - 220 ton capacity - receives clean coal from BS-02 and loads it to railcars	3,500	2,628,000	FE	B A	TP-25 TP-26	TC-FE LR-TC
Refuse Circuit									
BC-09	C 2013	5 and 8	Belt Conveyor - receives refuse from the wet wash prep plant and transfers it to BS-04	300	2,628,000	PE	B A	TP-28 TP-29	TC-FW TC-FE
BS-04	C 2013	5 and 8	Truck Loadout Bin - 100 ton capacity - receives refuse from BC-09 and loads it to trucks which hauls it to the disposal area	300	2,628,000	FE	B A A	TP-29 TP-30 TP-31	TC-FE LO-MDH UL-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 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; FC - Fixed Chute; and NC - No Control.

Emission Limitations

Facility-wide Emissions - G10-D153B **Caretta Minerals, LLC Caretta Preparation Plant**	**Maximum Controlled PM Emissions**		**Maximum Controlled PM_{10} Emissions**	
	lb/hour	TPY	lb/hour	TPY
Fugitive Emissions				
Open Storage Pile Emissions	0.17	0.75	0.08	0.35
Unpaved Haulroad Emissions	138.38	606.11	27.35	119.79
Paved Haulroad Emissions	0.00	0.00	0.00	0.00
Fugitive Emissions Total	*138.55*	*606.85*	*27.43*	*120.14*
Point Source Emissions				
Equipment Emissions	4.83	21.16	2.30	10.07
Transfer Point Emissions	0.02	0.05	0.01	0.02
Gen Set	0.71	0.56	0.71	0.56
Point Source Emissions Total (PTE)	*5.56*	*21.76*	*3.02*	*10.66*
FACILITY EMISSIONS TOTAL	**144.11**	**628.62**	**30.45**	**130.80**

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

Source ID No.	Emission Source ID No.	Pollutant	Maximum Emissions	
			lb/hour	TPY
Gen Set	Gen Set	Nitrogen Oxides (NO_x)	10.044	7.834
		Carbon Monoxide (CO)	2.1643	1.688
		Volatile Organic Compounds (VOC)	0.8003	0.624
		Sulfur Dioxide (SO_2)	0.6642	0.518
		Particulate Matter<10 microns (PM_{10})	0.7128	0.556
		Formaldehyde	0.00221	0.001726

Reciprocating Internal Combustion Engines

Emission Unit ID No.	Emission Unit Description (Make, Model, Serial No., etc.)	Year Manufactured	Year Installed	Design Capacity (Bhp/rpm)
Gen Set	Cummins	2013	2015	324 / 1,800

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)
Gen Set	Yes - EPA Tier III Certified	No	No

Storage Tanks

Source ID No.	Status	Content	Design Capacity			Orientation	G10-D Applicable Sections
			Volume	Diameter	Throughput		
T1	NEW	#2FO	2,000 gal	5'	70,000 gal/year	HORZ	10