

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-D157

Issued to:
Jacks Branch Coal Company
Marmet Dock Facility
039-00055



William F. Durham
Director

Issued: January 30, 2015

This Class II General Permit Registration will supercede and replace permits R13-1655D approved on March 4, 2003 and R13-2469C approved on November 24, 2004.

Facility Location: Marmet, Kanawha County, West Virginia
Mailing Address: 696 Robinson Creek Road, Madison, WV 25130
Facility Description: Coal Preparation Plant and Barge Loadout Facility
SIC Codes: 1221 (Bituminous Coal & Lignite - Surface)
NAICS Codes: 212111 (Bituminous Coal and Lignite Surface Mining)
UTM Coordinates: 451.5 km Easting • 4232.1 km Northing • Zone 17
Lat/Lon Coordinates: Latitude: 38.235592 • Longitude: -81.554183 • NAD83
Registration Type: Modification
Description of Change: Modification to do the following: convert from a Rule 13 individual permit to a G10-D General Permit; add bin BS-05, crusher CR-04 and belt conveyor BC-07 on the river side of the facility; delete various pieces of equipment including the two synfuel plants and their associated equipment and tanks; and eliminate the PM₁₀ monitoring requirements.

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 IIII)
- Section 12 Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (40CFR60 Subpart JJJJ)

Emission Units

Equipment ID No.	Date of Construction, Reconstruction or Modification ¹	G10-D Applicable Sections ²	Emission Unit Description	Maximum Permitted Throughput		Control Equipment ³	Associated Transfer Points		
				TPH	TPY		Location: B -Before A -After	ID No.	Control Equipment ³
Interstate Side - Clean Coal Circuit									
OS-01	M 2014 2003	5 and 8	Clean Coal Stockpile - maximum 350,000 tons capacity, 688,869 ft ² base area and 60' height - receives clean coal from trucks, stores it and then a front end-loader transfers it into BS-01	1,000	8,760,000	WS	B A	TP-01 TP-02	UL-MDH LO-PW
BS-01	M 2014 2003	5 and 8	Clean Coal Dump Bin - 400 tons capacity - receives clean coal from trucks and OS-01 via a front end-loader and feeds it onto BC-01	1,800	8,760,000	PW	B A	TP-02 TP-03	UL-PW TC-FE
BC-01	M 2014 2003	5 and 8	Belt Conveyor - receives clean coal from BS-01 and transfers it to SS-01 (see Screening and Crushing Building below)	1,800	8,760,000	PE	B A	TP-03 TP-04	TC-FE TC-PW
River Side - Clean Coal Circuits									
CR-02	M 2014 C 2001	5 and 8	Belt Sampler Crusher - receives clean coal from auger that pulls it directly from the trucks while on the truck scales, crushes and analyzes it and then drops it onto the ground where it is cleaned up as maintenance	50	438,000	FE	B A	NA NA	NA NA
OS-02	M 2014 2003	5 and 8	Clean Coal Stockpile - maximum 150,000 tons capacity, 388,869 ft ² base area and 60' height - receives clean coal from from trucks, stores it and then a front end-loader transfers it into BS-02, BS-03, BS-04 or BS-05	1,000	8,760,000	WS	B A A A	TP-05 TP-06 TP-09 TP-13 TP-17	UL-MDH LO-PW LO-PW LO-PW LO-PW
BS-02	M 2014 2003	5 and 8	Clean Coal Dump Bin - 100 tons capacity - receives clean coal from OS-02 via a front end-loader and feeds it onto BC-02	1,000	8,760,000	PW	B A	TP-06 TP-07	LO-PW TC-FE
BC-02	M 2014 2003	5 and 8	Belt Conveyor - receives clean coal from BS-02 and transfers it to BC-04 (see below)	1,000	8,760,000	PE	B A	TP-07 TP-08	TC-FE TC-FE

Equipment ID No.	Date of Construction, Reconstruction or Modification ¹	G10-D Applicable Sections ²	Emission Unit Description	Maximum Permitted Throughput		Control Equipment ³	Associated Transfer Points		
				TPH	TPY		Location: B - Before A - After	ID No.	Control Equipment ³
BS-03	M 2014 2003	5 and 8	Clean Coal Dump Bin - 44 tons capacity - receives clean coal from OS-02 via a front end-loader and feeds it onto BC-03	1,000	8,760,000	FE	B A	TP-09 TP-10	LO-PW TC-FE
BC-03	M 2014 2003	5 and 8	Belt Conveyor - receives clean coal from BS-03 and transfers it to BC-04	1,000	8,760,000	PE	B A	TP-10 TP-11	TC-FE TC-FE
BC-04	M 2014 2003	5 and 8	Belt Conveyor - receives clean coal from BC-02 and BC-03 and transfers it to SS-01 (see Screening and Crushing Building below)	1,000	8,760,000	PE	B B A	TP-08 TP-11 TP-12	TC-FE TC-FE TC-PW
BS-04	M 2014 2003	5 and 8	Clean Coal Dump Bin - 50 tons capacity - receives clean coal from OS-02 via a front end-loader and feeds it onto BC-05	1,000	8,760,000	FE	B A	TP-13 TP-14	LO-PW TC-FE
BC-05	M 2014 2003	5 and 8	Belt Conveyor - receives clean coal from BS-04 and transfers it to BC-06 (see below)	1,000	8,760,000	PE	B A	TP-14 TP-15	TC-FE TC-FE
BS-05	C 2015	5 and 8	Clean Coal Dump Bin - 50 tons capacity - receives clean coal from OS-02 via a front end-loader and feeds it into CR-04	1,000	8,760,000	FE	B A	TP-16 TP-17	LO-PW TC-FE
CR-04	C 2015	5 and 8	Sizer - receives sized raw coal from SS-01, crushes it to 6"x0 and then drops it onto BC-07	1,000	8,760,000	FW	B A	TP-17 TP-18	TC-FE TC-FW
BC-07	C 2015	5 and 8	Belt Conveyor - receives clean crushed coal from CR-04 and transfers it to BC-06	1,000	8,760,000	PE	B A	TP-18 TP-19	TC-FW TC-FE
BC-06	M 2014 2003	5 and 8	Belt Conveyor - receives clean coal from BC-05 and BC-07 and transfers it to SS-01 (see Screening and Crushing Building below)	1,000	8,760,000	PE	B A	TP-15 TP-19 TP-20	TC-FE TC-FE TC-PW
Screening and Crushing Building and Barge Loadout									
SS-01	M 2014 2001	5 and 8	Flextooth 56 Double Deck 8'x16' Vibrating Screen - receives clean coal from BC-01, BC-04 and BC-06 sizes it to 6"x4"x2" and drops the oversize clean coal to CR-01 and the undersize to BC-08	1,800	8,760,000	FW	B B B A A	TP-04 TP-12 TP-20 TP-22 TP-21	TC-PW TC-PW TC-PW TC-FW TC-FW
CR-01	M 2014 2001	5 and 8	Double Roll Crusher - receives oversize clean coal from SS-01, crushes it to 4"x2"x0 and then drops it onto BC-08	800	7,008,000	FW	B A	TP-22 TP-23	TC-FW TC-FW
BC-08	M 2014 2003	5 and 8	Belt Conveyor - receives sized clean coal from SS-01 and CR-01 and transfers it to the barge loadout. Clean coal is also diverted to CR-03, processed and then deposited back onto BC-08.	1,800	8,760,000	WS	B A A A	TP-21 TP-23 TP-24 TP-26	TC-FW TC-FW LO-TC TC-FW
CR-03	M 2014 C 2001	5 and 8	Belt Sampler Crusher - receives clean coal from BC-08, crushes and analyzes it and then drops it back onto BC-08	90	788,400	FE	B A	TP-26 TP-27	TC-FW LO-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; TC - Telescopic Chute; UC - Under-pile Conveyor (full enclosure); MDH - Minimize Drop Height; N - No Control; and NA - Not Applicable.

Emission Limitations

<i>Facility-wide Emissions - G10-D157</i> Jacks Branch Coal Company Marmet Dock Facility	Maximum Controlled PM Emissions		Maximum Controlled PM₁₀ Emissions	
	lb/hour	TPY	lb/hour	TPY
Fugitive Emissions				
Open Storage Pile Emissions	1.03	4.53	0.49	2.13
Unpaved Haulroad Emissions	0.00	0.00	0.00	0.00
Paved Haulroad Emissions	9.37	41.04	1.82	7.96
<i>Fugitive Emissions Total</i>	<i>10.40</i>	<i>45.57</i>	<i>2.30</i>	<i>10.09</i>
Point Source Emissions				
Equipment Emissions	24.16	62.02	11.36	29.15
Transfer Point Emissions	5.43	21.03	2.57	9.94
<i>Point Source Emissions Total (PTE)</i>	<i>29.59</i>	<i>83.05</i>	<i>13.92</i>	<i>39.09</i>
FACILITY EMISSIONS TOTAL				
	39.99	128.62	16.23	49.18

Storage Tanks - Not Applicable

Source ID No.	Status	Content	Design Capacity			Orientation	G10-D Applicable Sections
			Volume	Diameter	Throughput		

Engines - Not Applicable

Source ID	Emission Source	Pollutant	Maximum Hourly Emissions (lb/hr)	Maximum Annual Emissions (tpy)
		Nitrogen Oxides		
		Carbon Monoxide		
		Volatile Organic Compounds		
		Particulate Matter (<10 microns)		
		Sulfur Dioxide		
		Formaldehyde		

Control Devices - Not Applicable

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

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)