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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  
(304) 926-0475

Austin Caperton, Cabinet Secretary  
dep.wv.gov

March 23, 2018

Gerald Peacock, Manager  
LP Mineral, LLC  
317 Cleveland Avenue  
Fairmont, WV 26554

Re: Application Status: Approved  
LP Mineral, LLC  
Barrackville Refuse Site  
Registration Application G10-D148A  
Plant ID No. 049-00152

Dear Mr. Peacock:

Your application for a General Permit G10-D registration to modify a refuse recovery system 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 G10-D148A 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 G10-D may be obtained from the DAQ's website at the following address: <http://www.dep.wv.gov/daq/permitting/Pages/airgeneralpermit.aspx>.

This permit does not affect 45CSR30 applicability. The source is a deferred 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 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: Gerald Peacock, [gpeacockcoal@gmail.com](mailto:gpeacockcoal@gmail.com)  
Patrick Ward, [peward@potesta.com](mailto:peward@potesta.com)

*West Virginia Department of Environmental Protection*

*Austin Caperton  
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-D148A**

Issued to:  
**LP Mineral, LLC**  
**Barrackville Refuse Site**  
**049-00152**

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

*William F. Durham  
Director, Division of Air Quality*

*Effective: March 23, 2018*

This Class II General Permit Registration will supercede and replace registration G10-D148 approved on February 15, 2013.

Facility Location: Barrackville, Marion County, West Virginia  
Mailing Address: 317 Cleveland Avenue, Fairmont, WV 26554  
Facility Description: Coal Preparation Plant  
SIC Codes: 1221 (Bituminous Coal & Lignite - Surface)  
NAICS Codes: 212111 (Bituminous Coal and Lignite Surface Mining)  
UTM Coordinates: Easting: 570.67 km • Northing: 4373.77 km • NAD83 Zone 17N  
Lat/Lon Coordinates: Latitude: 39.5108 • Longitude: -80.1778 • NAD83  
Registration Type: Modification  
Description of Change: **After-the-Fact** modification to do the following: remove screen S1 (Norberg ST356), engine ENG1 (Duetz BF4M1013C) and two belt conveyors BC1 and BC2; add hopper H1, screen S1A (Screen Machine Spyder 516T), engine ENG1A (Cummins QSB4.5), three belt conveyors BC1B, BC2A and BC2B and two open storage piles SP2A and SP2B.

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.*

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*This permit does not affect 45CSR30 applicability. The source is a deferred 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 (40 CFR 60 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 (40 CFR 60 Subpart Y)
- Section 8 Standards of Performance for Coal Preparation and Processing Plants that Commenced Construction, Reconstruction or Modification after May 27, 2009 (40 CFR 60 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 <sup>1</sup>	G10-D Applicable Sections <sup>2</sup>	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>Refuse Recovery Circuit</b>									
H1	C 2016	5 and 8	Hopper - 10 tons capacity - receives refuse material from an endloader and funnels it onto BC1A	200	500,000	PW	B A	TP1	MD
BC1A	C 2016	5 and 8	Feed Belt Conveyor - receives refuse material from H1 and transfers it to S1A	200	500,000	N	B A	TP1 TP1A	MD PE
S1A	C 2016	5 and 8	Screen Machine Spyder 516T - receives refuse material from BC1A and oversize refuse drops onto BC2A, medium size refuse drops onto BC2B and pass through material drops onto BC1B	200	500,000	PW	B A A A	TP1A TP4 TP4A TP2	PE PE PE PE
BC2A	C 2016	5 and 8	Oversize Refuse Belt Conveyor - receives oversize refuse from S1A and transfers it to SP2A	200	500,000	N	B A	TP4 TP5	PE MD
SP2A	C 2016	5 and 8	Oversize Refuse Open Storage Pile - maximum 3,000 tons capacity, 5,000 ft <sup>2</sup> base area and 15' height - receives oversize refuse from BC2A, stores it and then an endloader transfers it to trucks to return it to the refuse pile	200	500,000	N	B B A	TP5 TP5A TP12	MD MD MD
BC2B	C 2016	5 and 8	Medium Size Refuse Belt Conveyor - receives medium size refuse from S1A and transfers it to SP2B	200	500,000	N	B A	TP4A TP5A	PE MD
SP2B	C 2016	5 and 8	Medium Size Refuse Open Storage Pile - maximum 3,000 tons capacity, 5,000 ft <sup>2</sup> base area and 15' height - receives oversize refuse from BC2B, stores it and then an endloader transfers it to trucks to return it to the refuse pile	200	500,000	N	B B A	TP5 TP5A TP12	MD MD MD
BC1B	C 2016	5 and 8	Pass Through Material Belt Conveyor - receives pass through material from S1A and transfers it to LW	200	500,000	N	B A	TP2 TP3	PE PE

Equipment ID No.	Date of Construction, Reconstruction or Modification <sup>1</sup>	G10-D Applicable Sections <sup>2</sup>	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>
LW	C 2013	5 and 8	Log Washer - receives pass through material from BC1B, combines it with water from the pond and then it exits to S2 via a chute	200	500,000	WET	B A A	TP3 TP6 TP7	PE WET WET
S2	C 2013	5 and 8	De-Watering Screen - receives pass through material from LW via a chute and combines it with water pumped from the settlement ponds and the reclaimed 2" x 0 coal drops onto BC3 while refuse drops onto BC4 and slurry is piped to S3	200	500,000	PW	B A A	TP7 TP8 TP10	WET PE PE
BC3	C 2013	5 and 8	Conveyor - receives reclaimed 2" x 0 coal from S2 and transfers it onto SP1	200	500,000	N	B A	TP8 TP9	PE MD
SP1	C 2013	5 and 8	Open Stockpile - maximum 10,000 tons capacity, 20,000 ft <sup>2</sup> base area and 15' height - receives reclaimed 2" x 0 coal from BC3, stores it and then an endloader transfers it to trucks for delivery off site	----	500,000	N	B A	TP9 TP12	MD MD
BC4	C 2013	5 and 8	Conveyor - receives refuse from De-Watering Screen S2 and transfers it to the refuse pile	200	500,000	N	B A	TP10 TP11	PE MDH
S3	C 2016	5 and 8	De-Watering Screen - receives refuse slurry from S2 through a pipe, dewateres it and then drops it onto the refuse pile and the remaining slurry goes to S4 through a pipe	200	500,000	PW	B A	N/A TP13	N/A N
S4	C 2016	5 and 8	De-Watering Screen - receives refuse slurry from S3 through a pipe, dewateres it and then drops it onto the refuse pile	200	500,000	PW	B A	N/A TP14	N/A N

<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; MD - Minimize Drop Height; and N - No Control.

### 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)
ENG1A	Cummins QSB4.5	2008	2017	110 / 2,200
ENG2	Caterpillar 3306	1975	2013	250 / 2,420
ENG3	John Deere 4045DF270B	2006	2013	82.1 / 2,500
ENG4	Perkins 2972/2200	2011	2013	100.4 / 2,200
ENG5	Perkins 2177/2200	2005	2013	126 / 2,000

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

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)
ENG1A	Yes - Tier 3	No	NA
ENG2	No	No	NA
ENG3	Yes - Tier 2	No	NA
ENG4	Yes - Tier 3	No	NA
ENG5	No - Tier 2	No	NA

### Emission Limitations

- New Facility-wide Emissions - LP Mineral, LLC Barrackville Refuse Site	Maximum Controlled PM Emissions		Maximum Controlled PM <sub>10</sub> Emissions		Maximum Controlled PM <sub>2.5</sub> Emissions	
	lb/hour	TPY	lb/hour	TPY	lb/hour	TPY
<b>Fugitive Emissions</b>						
Open Storage Pile Emissions	0.38	1.68	0.18	0.80	0.03	0.12
Unpaved Haulroad Emissions	25.83	43.09	7.63	12.72	0.76	1.28
Paved Haulroad Emissions	0.00	0.00	0.00	0.00	0.00	0.00
<i>Fugitive Emissions Total</i>	<i>26.21</i>	<i>44.77</i>	<i>7.81</i>	<i>13.52</i>	<i>0.79</i>	<i>1.40</i>
<b>Point Source Emissions</b>						
Equipment Emissions	24.00	30.00	14.10	17.65	2.15	2.70
Transfer Point Emissions	0.56	0.70	0.28	0.37	0.03	0.05
Five Engines Combined	0.77	3.38	0.77	3.38	0.77	3.38
<i>Point Source Emissions Total (PTE)</i>	<i>25.33</i>	<i>34.08</i>	<i>15.15</i>	<i>21.40</i>	<i>2.95</i>	<i>6.13</i>
<b>FACILITY EMISSIONS TOTAL</b>	<b>55.54</b>	<b>78.85</b>	<b>22.96</b>	<b>34.92</b>	<b>3.74</b>	<b>7.53</b>

### Engine Emissions

Source ID	Emission Source	NOx lb/hr	CO lb/hr	VOC lb/hr	SO <sub>2</sub> lb/hr	PM lb/hr	PM <sub>10</sub> lb/hr	Formaldehyde lb/hr	Total HAP's lb/hr
ENG1A	Cummins QSB4.5	0.69	0.16	0.30	0.24	0.02	0.02	0.001	0.0031
ENG2	Caterpillar 3306	8.64	1.86	0.70	0.57	0.61	0.61	0.0023	0.0075
ENG3	John Deere 4045DF270B	0.86	0.34	0.07	0.06	0.04	0.04	0.0002	0.0010
ENG4	Perkins 2972/2200	0.64	0.12	0.09	0.07	0.04	0.04	0.0003	0.0011
ENG5	Perkins 2177/2200	1.11	0.12	0.12	0.09	0.06	0.06	0.0004	0.0013
<b>TOTAL</b>		<b>11.94</b>	<b>2.60</b>	<b>1.28</b>	<b>1.03</b>	<b>0.77</b>	<b>0.77</b>	<b>0.0042</b>	<b>0.0140</b>

Source ID	Emission Source	NOx TPY	CO TPY	VOC TPY	SO <sub>2</sub> TPY	PM TPY	PM <sub>10</sub> TPY	Formaldehyde TPY	Total HAPs TPY
ENG1A	Cummins QSB4.5	3.02	0.70	1.31	1.05	0.09	0.09	0.004	0.013
ENG2	Caterpillar 3306	37.84	8.15	3.07	2.5	2.67	2.67	0.0101	0.033
ENG3	John Deere 4045DF270B	3.77	1.49	0.31	0.26	0.18	0.18	0.0009	0.0043
ENG4	Perkins 2972/2200	2.8	0.53	0.39	0.31	0.18	0.18	0.0013	0.0047
ENG5	Perkins 2177/2200	4.86	0.53	0.53	0.39	0.26	0.26	0.0018	0.0056
<b>TOTAL</b>		<b>52.29</b>	<b>11.40</b>	<b>5.61</b>	<b>4.51</b>	<b>3.38</b>	<b>3.38</b>	<b>0.0181</b>	<b>0.061</b>

**Storage Tanks**

Source ID No.	Status	Content	Design Capacity			Orientation	Liquid Height	G50-D Applicable Section(s)
			Volume	Diameter	Throughput			
T01	EXISTING	Hydraulic Oil	500	4'	NA	NA	NA	Section 10
T02	EXISTING	Motor Oil	500	4'	NA	NA	NA	Section 10
T03	EXISTING	Transmission Oil	500	4'	NA	NA	NA	Section 10
T04	EXISTING	No. 2 Fuel Oil	2,000	NA	~350,000 gal	NA	NA	Section 10

**Control Devices - Not Applicable**

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