

P & A Engineers and Consultants, Inc.

*312 Justice Avenue
Logan, WV 25601*

*Phone (304) 752-8320
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October 13, 2015

**Mr. William F. Durham
Division of Air Quality
601 57th Street SE
Charleston, WV 25304**

**RE: Zigmond Processing ID# 045-00018
General Permit Modification Application**

Dear Mr. Durham:

On behalf of Bandmill Coal Corporation, P & A Engineers and Consultants, Inc. submits the enclosed General Permit Modification Application for the Zigmond Processing Facility. The submittal fee and additional copies are included in the submittal.

The modification application addresses the construction and operation of a raw coal screen.

The legal advertisement has been placed in the Logan Banner and will be submitted upon receipt.

If additional information or clarification is needed, please contact me at the Logan address listed above or call 304-752-8320.

Sincerely,

**Donna J. Toler
Air Quality Project Manager**

donnatoler@suddenlink.net

BANDMILL COAL CORPORATION

**RUM CREEK PREPARATION PLANT
ZIGMOND PROCESSING
ID NO. 045-00018**

GENERAL PERMIT MODIFICATION G10-C099E

DIVISION OF AIR QUALITY

Submittal Date: October 2015

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WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 DIVISION OF AIR QUALITY
 601 57TH Street SE
 Charleston, WV 25304
 Phone: (304) 926-0475 • www.wvdep.org

APPLICATION FOR GENERAL PERMIT REGISTRATION

CONSTRUCT, MODIFY, RELOCATE OR ADMINISTRATIVELY UPDATE

A STATIONARY SOURCE OF AIR POLLUTANTS

- PLEASE CHECK ALL THAT APPLY (IF KNOWN):
- CONSTRUCTION MODIFICATION RELOCATION
 ADMINISTRATIVE UPDATE AFTER-THE-FACT

FOR AGENCY USE ONLY: PLANT I.D. # 045-00018

PERMIT # _____ PERMIT WRITER: _____

- G10-C** – Coal Preparation and Handling
- G20-B** – Hot Mix Asphalt
- G30-B** – Natural Gas Compressor Stations
- G40-B** – Nonmetallic Minerals Processing
- G50-B** – Concrete Batch

9. DAQ PLANT I.D. NO. (FOR AN EXISTING FACILITY ONLY):

045-00018

SECTION I. GENERAL INFORMATION

1. NAME OF APPLICANT (AS REGISTERED WITH THE WV SECRETARY OF STATE'S OFFICE):

BANDMILL COAL CORPORATION

2. FEDERAL EMPLOYER ID NO. (FEIN):

550758310

3. APPLICANT'S MAILING ADDRESS:

PO BOX 1098, HOLDEN, WV 25625

5. IF APPLICANT IS A SUBSIDIARY CORPORATION, PLEASE PROVIDE THE NAME OF PARENT CORPORATION:

ALPHA NATURAL RESOURCES

6. **WV BUSINESS REGISTRATION.** IS THE APPLICANT A RESIDENT OF THE STATE OF WEST VIRGINIA? YES NO

⇒ IF YES, PROVIDE A COPY OF THE **CERTIFICATE OF INCORPORATION / ORGANIZATION / LIMITED PARTNERSHIP** (ONE PAGE) INCLUDING ANY NAME CHANGE AMENDMENTS OR OTHER **BUSINESS CERTIFICATE** AS **ATTACHMENT A**.

⇒ IF NO, PROVIDE A COPY OF THE **CERTIFICATE OF AUTHORITY / AUTHORITY OF L.L.C. / REGISTRATION** (ONE PAGE) INCLUDING ANY NAME CHANGE AMENDMENTS OR OTHER **BUSINESS CERTIFICATE** AS **ATTACHMENT A**.

SECTION II. FACILITY INFORMATION

<p>7. TYPE OF PLANT OR FACILITY (STATIONARY SOURCE) TO BE CONSTRUCTED, MODIFIED, RELOCATED OR ADMINISTRATIVELY UPDATED (E.G., COAL PREPARATION PLANT, PRIMARY CRUSHER, ETC.):</p> <p>Add raw coal screen</p>	<p>8. STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODE FOR THE FACILITY:</p> <p align="center">1221 and 1222</p>
<p>9A. DAQ PLANT I.D. NO. (FOR AN EXISTING FACILITY):</p> <p>045-00018</p>	<p>10A. LIST ALL CURRENT 45CSR13 AND 45CSR30 (TITLE V) PERMIT NUMBERS ASSOCIATED WITH THIS PROCESS (FOR EXISTING FACILITY ONLY):</p> <p align="center">G10-D099E</p>

PRIMARY OPERATING SITE INFORMATION

<p>11A. NAME OF PRIMARY OPERATING SITE:</p> <p align="center"><u>RUM CREEK PREP PLANT</u> <u>ZIGMOND PROCESSING</u></p>	<p>12A. MAILING ADDRESS OF PRIMARY OPERATING SITE:</p> <p align="center"><u>PO BOX 847, STOLLINGS, WV 25646</u></p>	
<p>13A. DOES THE APPLICANT OWN, LEASE, HAVE AN OPTION TO BUY, OR OTHERWISE HAVE CONTROL OF THE <i>PROPOSED SITE</i>?</p> <p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>⇒ IF YES, PLEASE EXPLAIN: OWNER AND OPERATOR</p> <p>⇒ IF NO, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.</p>		
<p>14A. ⇒ FOR MODIFICATIONS or ADMINISTRATIVE UPDATES, AT AN EXISTING FACILITY, PLEASE PROVIDE DIRECTIONS TO THE <i>PRESENT LOCATION</i> OF THE FACILITY FROM THE NEAREST STATE ROAD;</p> <p>⇒ FOR CONSTRUCTION OR RELOCATION PERMITS, PLEASE PROVIDE DIRECTIONS TO <i>THE PROPOSED NEW SITE LOCATION</i> FROM THE NEAREST STATE ROAD.</p> <p align="center">From Charleston, take US119 South to Logan, Take Route 10 toward Man, take County Route 14 at Rum Creek intersection and travel two miles, facility is on right adjacent to highway.</p> <p>INCLUDE A MAP AS ATTACHMENT F.</p>		
<p>15A. NEAREST CITY OR TOWN:</p> <p align="center">Stollings</p>	<p>16A. COUNTY:</p> <p align="center">Logan</p>	
<p>17A. UTM NORTHING (KM):</p> <p align="center">4185.4</p>	<p>18A. UTM EASTING (KM):</p> <p align="center">420.2</p>	<p>19A. UTM ZONE:</p> <p align="center">17</p>

2ND ALTERNATE OPERATING SITE INFORMATION

11C. NAME OF PRIMARY OPERATING SITE: N/A		12C. MAILING ADDRESS OF PRIMARY OPERATING SITE:	
13C. DOES THE APPLICANT OWN, LEASE, HAVE AN OPTION TO BUY, OR OTHERWISE HAVE CONTROL OF THE <i>PROPOSED SITE</i> ? <input type="checkbox"/> YES <input type="checkbox"/> NO ⇨ IF YES, PLEASE EXPLAIN: _____ ⇨ IF NO, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.			
14C. ⇨ FOR MODIFICATIONS or ADMINISTRATIVE UPDATES , AT AN EXISTING FACILITY, PLEASE PROVIDE DIRECTIONS TO THE <i>PRESENT LOCATION</i> OF THE FACILITY FROM THE NEAREST STATE ROAD; ⇨ FOR CONSTRUCTION OR RELOCATION PERMITS , PLEASE PROVIDE DIRECTIONS TO <i>THE PROPOSED NEW SITE LOCATION</i> FROM THE NEAREST STATE ROAD. INCLUDE A MAP AS ATTACHMENT F .			
15C. NEAREST CITY OR TOWN:		16C. COUNTY:	
17C. UTM NORTHING (KM):	18C. UTM EASTING (KM):	19C. UTM ZONE:	
20. PROVIDE THE DATE OF ANTICIPATED INSTALLATION OR CHANGE: <u>December 1, 2015</u> ⇨ IF THIS IS AN AFTER-THE-FACT PERMIT APPLICATION, PROVIDE THE DATE UPON WHICH THE PROPOSED CHANGE DID HAPPEN: ____/____/____		21. DATE OF ANTICIPATED START- UP IF REGISTRATION IS GRANTED: <u>December 1, 2015</u>	
22. PROVIDE MAXIMUM PROJECTED OPERATING SCHEDULE OF ACTIVITY/ ACTIVITIES OUTLINED IN THIS APPLICATION: HOURS PER DAY <u>24</u> DAYS PER WEEK <u>7</u> WEEKS PER YEAR <u>52</u> PERCENTAGE OF OPERATION <u>100%</u>			

Attachment B

PROCESS DESCRIPTION

The Bandmill Preparation Plant Facility is located on Rum Creek, near Dehue, Logan County, WV and processes coal received from local surface and deep mines via belt conveyors and/or through truck dump facilities. The existing and proposed NSPS equipment is listed at the maximum operating rate.

Raw coal from underground is sent from BC-07(PE) @ TP-01(TC-FE) to BC-01(PE) @ TP-02(TC-PE) for storage in the Alma Deep Mine Stockpile. Stored coal is then transferred back by belt conveyor BC-02(PE) @ TP-03(TC-FE) to a fully-enclosed double roll crusher CR-01(FE) @ TP-04(TC-FW), which discharges to belt conveyor BC-03(PE) @ TP-05(TC-FE). Belt conveyor BC-03 will transfer to the plant @ TP-06(TC-WW).

Belt conveyor BC-03 will transfer inside the plant to two separate raw coal screens SS-01(FW) and Screen SS-02(FW) @ TP-51(TC-FW) and TP-52(TC-FW) which discharge directly to the wet wash process. Belt BC-08 transfers to the direct ship crusher CR-03(FW) inside the plant @ TP-54(TC-FW) and then to belt conveyor BC-09 @ TP-55(TC-FW) inside the plant. After the wet wash process, oversize clean coal is processed by clean coal crusher CR-04(FW) inside the plant before being transferred to clean coal belt BC-10.

Raw coal will also be transferred ROM to belt conveyor BC-04(PE) @ TP-07(TC-FE) and to open stockpile OS-01(SW-WS) @ TP-08(TC-MDH). Stockpile OS-01 will transfer underpile to belt conveyor BC-05(PE) @ TP-

09(LO-UC) and then to the plant feed belt BC-07(PE) @ TP-10(TC-FE). Raw coal will also transfer ROM to belt conveyor BC-06(PE) @ TP-11(TC-FE) and onto the plant feed conveyor BC-07 @ TP-12(TC-FE) which will transfer to the plant @ TP-13(TC-WW). Please note that even though belt conveyors BC-05, BC-06 and BC-07 are rated for 1000TPH, we are limiting the throughput on these belt conveyors.

Direct ship clean coal delivered by truck on paved haulroads to the partially-enclosed w/water Bandmill Truck Dump BS-01(PW) @ TP-14(UD-PW) will transfer through a fully-enclosed feeder-breaker CR-02(FE) @ TP-15(TC-FE) before transferring onto belt conveyor BC-08(PE) @ TP-16(TC-FE). Belt conveyor BC-08 will transfer inside the plant to belt conveyor BC-09(PE) @ TP-17(TC-FE), which will feed the direct ship stockpile OS-02(SW-WS) @ TP-18(TC-PE). Some direct ship coal will be processed inside the plant through direct ship crusher CR-03(FW) @ TP-53(TC-FW) and transfer to belt conveyor BC-09 @ TP-54(TC-FW).

A certain percentage of the clean coal will be processed through a DR clean coal crusher CR-04(FW) @ TP-55(TC-FW) before it exits the plant on belt conveyor BC-10 @ TP-19(TC-FW). Clean coal from the preparation plant will transfer to the clean coal stockpiles OS-03(SW-WS) and OS-04(SW-WS) via a series of partially-enclosed belt conveyors BC-10(PE) thru BC-13(PE) @ TP-19(TC-FW) thru TP-24(TC-PE). This clean coal will be reclaimed to belt conveyor BC-14(FE) @ TP-25(LO-UC) thru TP-27(LO-UC) for transfer to the loadout belt BC-15(PE) @ TP-28(TC-FE).

Stoker coal will transfer from the plant to the stoker silos, BS-04(FE), BS-05(FE), and BS-06(FE) via belt conveyors BC-16(PE) thru BC-18(PE) @ TP-29(TC-WW) and TP-34(TC-FE). Stoker will be reclaimed underpile by belt conveyor BC-19(FE) @ TP-35(LO-UC) thru TP-37(LO-UC) and also transfer

to the loadout belt BC-15 @ TP-38(TC-FE). Belt conveyor BC-15 will transfer clean coal to the rail loadout via the loadout bin BS-02(FE) @ TP-39(TC-FE) and surge bin BS-03(FE) @ TP-40(TC-FE). The transfer to railcar takes place @ TP-41(LR-TC).

Refuse is transferred from the plant to the disposal area via a series of controlled and uncontrolled belt conveyors BC-20(PE) thru BC-27(NC) @ TP-42(TC-WW) thru TP-50(TC-MDH).

MODIFICATION APRIL 2015:

This modification addresses the addition of four rock belts BC-28(NC), BC-29(NC), BC-30(NC) and BC-31(FE) that will run from the primary crusher building and intersect back to refuse belt conveyor BC-20. The refuse or rock will bypass crusher CR-01 and transfer out accordingly at TP-56(TC-FE), TP-57(TC-PE), TP-58(TC-PE), TP-59(TC-PE) and TP-60(TC-PE).

Modification October 2015:

With the addition of raw coal screen SS-03, material will transfer from belt conveyor BC-02 to SS-03 @ TP-04(TC-FW) and the screen will transfer to crusher CR-01 @ TP-05(TC-FW); crusher CR-01 will transfer to belt conveyor BC-03 @ TP-61(TC-FW).

Please note that the stockpile OS-04 and silo BS-06 have not been constructed.

DESCRIPTION OF FUGITIVE EMISSIONS

Potential sources of fugitive particulate emissions for this facility include emissions, which are not captured by pollution control equipment and emissions from open stockpiles and vehicular traffic on paved haulroads and work areas. The haulroads and work areas will be controlled by water truck in accordance with section E.6.c.i. of the General Permit.

The water truck is equipped with pumps sufficient to maintain haulroads and work areas. The water truck will be operated three times daily, and more as needed in dry periods.

The stacking tubes will be equipped with a time-delay water spray system to control fugitive emissions from wind erosion of the stockpiles.

An additive to prevent freezing will be utilized in the winter months when freezing conditions are present.

CRUSHING AND SCREENING AFFECTED SOURCE SHEET

Source Identification Number ¹		Double Roll CR-01	CR-02	In-Plant CR-03	In-Plant CR-04	
Type of Crusher or Screen ²		Raw Coal Sizer	Stamler Breaker	SR	DR	
Date of Manufacture ³		2009	2009	2011	2011	
Maximum Throughput ⁴	tons/hour	1300	650	400	100	
	tons/year	11,388,000	5,694,000	3,504,000	876,000	
Material sized from/to: ⁵		4x0	6x0	2x0	2x0	
Average Moisture Content (%) ⁶		5	5	7	7	
Control Device ID Number ⁷		FE	FE	FW	FW	
Baghouse Stack Parameters ⁸	height (ft)	N/A				
	diameter (ft)					
	volume (ACFM)					
	exit temp (°F)					
	UTM Coordinates					
Maximum Operating Schedule ⁹	hours/day	24	24	24	24	
	days/year	365	365	365	365	
	hours/year	8760	8760	8760	8760	
Percentage of Operation ¹⁰	January-March	25	25	25	25	
	April-June	25	25	25	25	
	July- September	25	25	25	25	
	Oct-December	25	25	25	25	

1. Enter the appropriate Source Identification Number for each crusher and screen. For example, in the case of an operation which incorporates multiple crushers, the crushers should be designated CR-1, CR-2, CR-3 etc. beginning with the breaker or primary crusher. Multiple screens should be designated S-1, S-2, S-3 etc.

2. Describe types of crushers and screens using the following codes:

HM Hammermill DR Double Roll Crusher BM Ball Mill RB Rotary Breaker JC Jaw Crusher GC Gyratory Crusher OT Other	SS Stationary Screen SD Single Deck Screen DD Double-Deck Screen TD Triple Deck Screen OT Other
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3. Enter the date that each crusher and screen was manufactured.

4. Enter the maximum throughput for each crusher and screen in tons per hour and tons per year.

5. Describe the nominal material size reduction (e.g. +2"/ -").

6. Enter the average percent moisture content of the material processed.

7. Enter the appropriate Control Device Identification Number for each crusher and screen. Refer to Table A - *Control Device Listing and Control Device Identification Number Instructions* in the *Reference Document* for Control Device ID prefixes and numbering.

8. Enter the appropriate stack parameters if a baghouse control device is used.

9. Enter the maximum operating schedule for each crusher

CONVEYING AFFECTED SOURCE SHEET

Source Identification Number ¹	Date of Manufacture/Modification ²	Type of Material Handled ³	Size of Material Handled ⁴	Maximum Material Transfer Rate ⁵		Average Moisture Content (%) ⁶	Control Device ⁷
				tons/hour	tons/year		
Alma BC-01	2009	RC	4x0	1000	8,760,000	6	PE
Alma BC-02	2009	RC	4x0	1300	11,388,000	6	PE
Plant Feed Alma BC-03	2009	RC	2x0	1300	11,388,000	6	PE
Hernshaw BC-04	2004	RC	4x0	600	5,256,000	6	PE
Hernshaw BC-05	2004	RC	4x0	1000	5,256,000	6	PE
Hernshaw BC-06	2009	RC	4x0	1000	5,500,000	6	PE
Deep Mine Plant Feed BC-07	2009	RC	4x0	1000	8,760,000	6	PE
Direct Ship BC-08	2009	CC	4x0	650	5,694,000	5	PE
Direct Ship BC-09	2009	CC	2x0	650	5,694,000	5	PE
Plant Clean BC-10	2009	CC	2x0	680	5,956,000	7	PE
CC Transfer BC-11	2009	CC	2x0	680	5,956,000	7	PE
CC Transfer BC-12	2009	CC	2x0	680	5,956,000	7	PE
CC Transfer BC-13	2009	CC	2x0	680	5,956,000	7	PE
CC Reclaim BC-14	2009	CC	2x0	3500	10,950,000	7	FE
Loadout BC-15	2009	CC	2x0	3500	10,950,000	7	PE

Source Identification	Date of Manufacture/	Type of Material	Size of Material	Maximum Material Transfer Rate ⁵		Average Moisture	Control Device
Plant Stoker BC-16	2009	CC	2x0	250	2,190,000	7	PE
Stoker Transfer BC-17	2009	CC	2x0	250	2,190,000	7	PE
Stoker Transfer BC-18	2009	CC	2x0	250	2,190,000	7	PE
Stoker Reclaim BC-19	2009	CC	2x0	1500	2,190,000	7	FE
Refuse BC-20	2004	Refuse	-1 3/8	650	5,694,000	10	PE
Refuse BC-21	2004	Refuse	-1 3/8	650	5,694,000	10	PE
Refuse BC-22	2004	Refuse	-1 3/8	650	5,694,000	10	PE
Refuse BC-23	2004	Refuse	-1 3/8	650	5,694,000	10	NC
Refuse BC-24	2004	Refuse	-1 3/8	650	5,694,000	10	NC
Refuse BC-25	2004	Refuse	-1 3/8	650	5,694,000	10	NC
Refuse BC-26	2004	Refuse	-1 3/8	650	5,694,000	10	NC
Refuse BC-27	2004	Refuse	-1 3/8	650	5,694,000	10	NC
Refuse BC-28	Proposed 2015	Refuse	2x0	200	1,752,000	5	NC
Refuse BC-29	Proposed 2015	Refuse	2x0	200	1,752,000	5	NC
Refuse BC-30	Proposed 2015	Refuse	2x0	200	1,752,000	5	NC
Refuse BC-31	Proposed 2015	Refuse	2x0	200	1,752,000	5	FE

STORAGE ACTIVITY AFFECTED SOURCE SHEET

Source Identification Number ¹	Bandmill BS-01	Loadout BS-02	Surge BS-03	CC Silo BS-04	CC Silo BS-05	CC Silo BS-06
Type of Material Stored ²	CC	CC	CC	CC	CC	CC
Average Moisture Content (%) ³	5	7	7	7	7	7
Maximum Yearly Storage Throughput (tons) ⁴	5,694,000	10,950,000	10,950,000	2,190,000	2,190,000	2,190,000
Maximum Storage Capacity (tons) ⁵	100	420	120	1500	2500	5000
Maximum Base Area (ft ²) ⁶						
Maximum Pile Height (ft) ⁷						
Method of Material Load-in ⁸	TD	SS	SS	SS	SS	SS
Load-in Control Device Identification Number ⁹	UD-PW	TC-FE	TC-FE	TC-FE	TC-FE	TC-FE
Storage Control Device Identification Number ⁹	SW-PW	SW-FE	SW-FE	SW-FE	SW-FE	SW-FE
Method of Material Load-out ⁸	SS	Enclosed Chute	TC	SS	SS	SS
Load-out Control Device Identification Number ⁹	TC-FE	TC-FE	LR-TC	LO-UC	LO-UC	LO-UC

1. Enter the appropriate Source Identification Number for each storage activity using the following codes. For example, if the facility utilizes three storage bins, four open stockpiles and one storage building (full enclosure), the Source Identification Numbers should be BS-1, BS-2, and BS-3; OS-1, OS-2, OS-3, and OS-4; and SB-1, respectively.

BS Bin or Storage Silo (full enclosure)

OS Open Stockpile

SF Stockpiles with wind fences

E3 Enclosure (three sided enclosure)

SB Storage Building (full enclosure)

OT Other : **Pressurized Truck**

2. Describe the type of material stored or stockpiled (e.g. clean coal, raw coal, refuse, etc).
3. Enter the average percent moisture content of the stored material.
4. Enter the maximum yearly storage throughput for each storage activity.
5. Enter the maximum storage capacity for each storage activity in tons (e.g. silo capacity, maximum stockpile size, etc.)
6. For stockpiles, enter the maximum stockpile base area.
7. For stockpiles, enter the maximum stockpile height.
8. Enter the method of load-in or load-out to/from stockpiles or bins using the following codes:

CS Clamshell

FC Fixed Height Chute from Bins

FE Front Endloader

MC Mobile Conveyor/Stacker

UC Under-pile or Under-Bin Reclaim Conveyor

RC Rake or Bucket Reclaim Conveyor

SS Stationary Conveyor/Stacker

ST Stacking Tube

TC Telescoping Chute from Bins

TD Truck Dump

PC Pneumatic Conveyor/Stacker

OT Other

STORAGE ACTIVITY AFFECTED SOURCE SHEET

Source Identification Number ¹	Hernshaw OS-01	Direct Ship OS-02	Clean Coal OS-03	Clean Coal OS-04	
Type of Material Stored ²	RC	CC	CC	CC	
Average Moisture Content (%) ³	6	5	7	7	
Maximum Yearly Storage Throughput (tons) ⁴	5,256,000	5,694,000	5,956,000	5,956,000	
Maximum Storage Capacity (tons) ⁵	20,000	25,000	25,000	25,000	
Maximum Base Area (ft ²) ⁶	38,869	38,869	38,869	38,869	
Maximum Pile Height (ft) ⁷	65'	75'	75'	75'	
Method of Material Load-in ⁸	SS	SS	SS	SS	
Load-in Control Device Identification Number ⁹	TC-MDH	TC-PE(ST)	TC-PE(ST)	TC-PE(ST)	
Storage Control Device Identification Number ⁹	SW-WS	SW-WS	SW-WS	SW-WS	
Method of Material Load-out ⁸	UC	UC	UC	UC	
Load-out Control Device Identification Number ⁹	LO-UC	LO-UC	LO-UC	LO-UC	

1. Enter the appropriate Source Identification Number for each storage activity using the following codes. For example, if the facility utilizes three storage bins, four open stockpiles and one storage building (full enclosure), the Source Identification Numbers should be BS-1, BS-2, and BS-3; OS-1, OS-2, OS-3, and OS-4; and SB-1, respectively.

BS Bin or Storage Silo (full enclosure)	E3 Enclosure (three sided enclosure)
OS Open Stockpile	SB Storage Building (full enclosure)
SF Stockpiles with wind fences	OT Other

2. Describe the type of material stored or stockpiled (e.g. clean coal, raw coal, refuse, etc).

3. Enter the average percent moisture content of the stored material.

4. Enter the maximum yearly storage throughput for each storage activity.

5. Enter the maximum storage capacity for each storage activity in tons (e.g. silo capacity, maximum stockpile size, etc.)

6. For stockpiles, enter the maximum stockpile base area.

7. For stockpiles, enter the maximum stockpile height.

8. Enter the method of load-in or load-out to/from stockpiles or bins using the following codes:

CS Clamshell	SS Stationary Conveyor/Stacker
FC Fixed Height Chute from Bins	ST Stacking Tube
FE Front Endloader	TC Telescoping Chute from Bins
MC Mobile Conveyor/Stacker	TD Truck Dump
UC Under-pile or Under-Bin Reclaim Conveyor	PC Pneumatic Conveyor/Stacker
RC Rake or Bucket Reclaim Conveyor	

CRUSHING AND SCREENING AFFECTED SOURCE SHEET

Source Identification Number ¹		In-Plant SS-01	In-Plant SS-02	SS-03		
Type of Crusher or Screen ²		DD	DD	DD		
Date of Manufacture ³		2011	2011	2015		
Maximum Throughput ⁴	tons/hour	650	650	1300		
	tons/year	5,694,000	5,694,000	11,388,000		
Material sized from/to: ⁵		4x0	4x0	4x0		
Average Moisture Content (%) ⁶		7	7	6		
Control Device ID Number ⁷		FW	FW	FW		
Baghouse Stack Parameters ⁸	height (ft)	N/A				
	diameter (ft)					
	volume (ACFM)					
	exit temp (°F)					
	UTM Coordinates					
Maximum Operating Schedule ⁹	hours/day	24	24	24		
	days/year	365	365	365		
	hours/year	8760	8760	8760		
Percentage of Operation ¹⁰	January-March	25	25	25		
	April-June	25	25	25		
	July- September	25	25	25		
	Oct-December	25	25	25		

1. Enter the appropriate Source Identification Number for each crusher and screen. For example, in the case of an operation which incorporates multiple crushers, the crushers should be designated CR-1, CR-2, CR-3 etc. beginning with the breaker or primary crusher. Multiple screens should be designated S-1, S-2, S-3 etc.
2. Describe types of crushers and screens using the following codes:

HM Hammermill DR Double Roll Crusher BM Ball Mill RB Rotary Breaker JC Jaw Crusher GC Gyratory Crusher OT Other	SS Stationary Screen SD Single Deck Screen DD Double-Deck Screen TD Triple Deck Screen OT Other
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3. Enter the date that each crusher and screen was manufactured.
4. Enter the maximum throughput for each crusher and screen in tons per hour and tons per year.
5. Describe the nominal material size reduction (e.g. +2"/-").
6. Enter the average percent moisture content of the material processed.
7. Enter the appropriate Control Device Identification Number for each crusher and screen. Refer to Table A - *Control Device Listing and Control Device Identification Number Instructions* in the *Reference Document* for Control Device ID prefixes and numbering.
8. Enter the appropriate stack parameters if a baghouse control device is used.
9. Enter the maximum operating schedule for each crusher

ATTACHMENT H

BAGHOUSE AIR POLLUTION CONTROL DEVICE SHEET *Not applicable for this facility*

Complete a Baghouse Air Pollution Control Device Sheet for each baghouse control device.

1. Baghouse Control Device Identification Number:
2. Manufacturer's name and model identification:
3. Number of compartments in baghouse:
4. Number of compartments online during normal operation and conditions:
5. Gas flow rate into baghouse: _____ ACFM @ _____ °F and _____ PSIA
6. Total cloth area: _____ ft²
7. Operating air to cloth ratio: _____ ft/min
8. Filter media type: _____
9. Stabilized static pressure drop across baghouse: _____ inches H₂O
10. Baghouse operation is:
 Continuous Automatic Intermittent
11. Method used to clean bags:
 Shaker Pulse jet Reverse jet Other
12. Emission rate of particulate matter entering and exiting baghouse at maximum design operating conditions:
Entering baghouse: _____ lb/hr and _____ grains/ACF
Exiting baghouse: _____ lb/hr and _____ grains/ACF
13. Guaranteed minimum baghouse collection efficiency: _____ %
14. Provide a written description of the capture system (e.g. hooding and ductwork arrangement), size of ductwork and hoods and air volume, capacity and operating horsepower of fan:

15. Describe the method of disposal for the collected material:

Source:

AP42, Fifth Edition, Revised 11/2006
13.2.4 Aggregate Handling and Storage Piles

Emissions From Batch Drop

$$E = k \cdot (0.0032) \cdot [(U/5)^{1.3}] / [(M/2)^{1.4}] = \text{pounds/ton}$$

Where:

		PM	PM-10
k =	Particle Size Multiplier (dimensionless)	0.74	0.35
U =	Mean Wind Speed (mph)		
M =	Material Moisture Content (%)		

Assumptions:

k - Particle size multiplier

For PM (< or equal to 30um) k = 0.74

For PM-10 (< or equal to 10um) k = 0.35

Emission Factor

For PM E= $\$I\$88 \cdot (0.0032) \cdot (((\text{Inputs!}\$I\$72)/5)^{1.3}) / (((\text{Inputs!}G78 + 0.00000001)/2)^{1.4})$
=lb/ton

For PM-10 E= $\$J\$88 \cdot (0.0032) \cdot (((\text{Inputs!}\$I\$72)/5)^{1.3}) / (((\text{Inputs!}G78 + 0.00000001)/2)^{1.4})$
=lb/ton

For lb/hr [lb/ton]*[ton/hr] = [lb/hr]

For Tons/year [lb/ton]*[ton/yr]*[ton/2000lb] = [ton/yr]

P & A Engineers and Consultants, Inc.

*312 Justice Avenue
Logan, WV 25601*

*Phone (304) 752-8320
Fax (304) 752-7488*

October 28, 2015

**Mr. Daniel P. Roberts
Division of Air Quality
601 57th Street SE
Charleston, WV 25304**

**RE: Zigmond Processing
ID# 045-00018**

Dear Dan,

Attached is the Certificate of Publication for Bandmill Coal Company.

If additional information or clarification is needed, please contact me at the Logan address listed above or call 304-752-8320.

Sincerely,

**Donna J. Toler
Air Quality Project Manager**

donnatoler@suddenlink.net

Legal Advertisement

**AIR QUALITY PERMIT NOTICE
Notice of Application**

Notice is given that Bandmill Coal Corporation has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for a General Permit Modification for a coal preparation plant facility located on Rum Creek, near Dehue, in Logan County, West Virginia. The facility coordinates are as follows: latitude -81.905853 longitude 37.814450.

The applicant estimates that the increase in the facility potential to discharge the following Regulated Air Pollutants will be: 56 tons per year of controlled baseline particulate matter, 27 tons per year of controlled particulate matter less than 10 microns, and the facility emissions total of 56 tons of controlled particulate matter.

Startup of operation is planned to begin upon permit approval. Written comments will be received by the West Virginia Department of Environmental Protection, Division of Air Quality, 601 57th Street, SE, Charleston, WV 25304, for at least 30 calendar days from the date of publication of this notice.

Any questions regarding this permit application should be directed to the DAQ at (304) 926-0499, extension 1227, during normal business hours.

Dated this the 14th day of October 2015

By: Bandmill Coal Corporation
Michael G. Smith
Authorized Agent
PO Box 1098
Holden, WV 25625

ATTACHMENT K

**ELECTRONIC SUBMITTAL DISK
LOCATED IN ORIGINAL COPY ONLY**

SECTION III. ATTACHMENTS AND SUPPORTING DOCUMENTS

PLEASE CHECK ALL ATTACHMENTS INCLUDED WITH THIS PERMIT APPLICATION:

Please See the appropriate reference document for an explanation of the attachments listed below.

- **ATTACHMENT A : CURRENT BUSINESS CERTIFICATE**
- **ATTACHMENT B: PROCESS DESCRIPTION**
- **ATTACHMENT C: DESCRIPTION OF FUGITIVE EMISSIONS**
- **ATTACHMENT D: PROCESS FLOW DIAGRAM**
- **ATTACHMENT E: PLOT PLAN**
- **ATTACHMENT F: AREA MAP**
- **ATTACHMENT G: AFFECTED SOURCE SHEETS**
- **ATTACHMENT H: BAGHOUSE AIR POLLUTION CONTROL DEVICE SHEET**
- **ATTACHMENT I: EMISSIONS CALCULATIONS**
- **ATTACHMENT J: CLASS I LEGAL ADVERTISEMENT**
- **ATTACHMENT K: ELECTRONIC SUBMITTAL DISKETTE**
- **CERTIFICATION OF INFORMATION**
- **APPLICATION FEE**

PLEASE MAIL AN ORIGINAL AND TWO COPIES OF THE COMPLETE GENERAL PERMIT REGISTRATION APPLICATION WITH THE SIGNATURE(S) TO THE DAQ PERMITTING SECTION AT THE ADDRESS SHOWN ON THE FRONT PAGE. PLEASE DO NOT FAX PERMIT APPLICATIONS. FOR QUESTIONS REGARDING APPLICATIONS OR WEST VIRGINIA AIR POLLUTION RULES AND REGULATIONS PLEASE CALL (304) 926-3727.

2. TRANSFER POINTS (including all conveyor transfer points, equipment transfer points etc.)

k =	Particle Size Multiplier (dimensionless)	PM	PM-10
U =	Mean Wind Speed (mph)	0.74	0.35
		7	

Transfer Point ID No.	Transfer Point Description Include ID Numbers of all conveyors, crushers, screens, stockpiles, etc. involved	Material Moisture Content %	Maximum Transfer Rate		Control Device ID Number	Control Efficiency %
			TPH	TPY		
TP01	BC-07 to BC-01 inside plant	6	1,000	8,760,000	TC-FE	80
TP02	BC-01 to Alma Stockpile	6	1,000	8,760,000	TC-PE	50
TP03	Alma Stockpile to BC-02 Alma	6	1,300	11,388,000	TC-FE	80
TP04	BC-02 to CR-01	6	1,300	11,388,000	TC-FE	80
TP05	CR-01 to BC-03	6	1,300	11,388,000	TC-FE	80
TP06	BC-03 to Plant	6	1,300	11,388,000	TC-WW	100
TP07	ROM to BC-04 - Hershaw	6	600	5,256,000	TC-FE	80
TP08	BC-04 to OS-01	6	600	5,256,000	TC-MDH	0
TP09	OS-01 to BC-05	6	1,000	5,256,000	LO-UC	80
TP10	BC-05 to BC-07	6	1,000	5,256,000	TC-FE	80
TP11	ROM to BC-06 - Chilton Belt	6	1,000	5,500,000	TC-FE	80
TP12	BC-06 to BC-07	6	1,000	5,500,000	TC-FE	80
TP13	BC-07 to Plant	6	1,000	8,760,000	TC-WW	100
TP14	Truck to Bin BS-01- Bandmill TD	5	650	5,694,000	UD-PW	85
TP15	BS-01 to CR-02	5	650	5,694,000	TC-FE	80
TP16	CR-02 to BC-08	5	650	5,694,000	TC-FE	80
TP17	BC-08 to BC-09	5	650	5,694,000	TC-FE	80
TP18	BC-09 to OS-02	5	650	5,694,000	TC-PE	50
TP19	Plant to BC-10	7	680	5,956,000	TC-WW	100
TP20	BC-10 to BC-11	7	680	5,956,000	TC-FE	80
TP21	BC-11 to BC-12	7	680	5,956,000	TC-FE	80
TP22	BC-12 to OS-03	7	680	5,956,000	TC-PE	50
TP23	BC-12 to BC-13	7	680	5,956,000	TC-FE	80
TP24	BC-13 to OS-04	7	680	5,956,000	TC-PE	50
TP25	OS-04 to BC-14	7	3,500	5,956,000	LO-UC	80
TP26	OS-03 to BC-14	7	3,500	5,956,000	LO-UC	80
TP27	OS-02 to BC-14	7	3,500	5,694,000	LO-UC	80
TP28	BC-14 to Loadout Belt BC-15	7	3,500	10,950,000	TC-FE	80
TP29	Plant to Stoker Belt BC-16	7	250	2,190,000	TC-FE	80
TP30	Belt BC-16 to Belt BC-17	7	250	2,190,000	TC-FE	80
TP31	Belt BC-17 to Silo BS-04	7	250	2,190,000	TC-FE	80
TP32	Belt BC-17 to Belt BC-18	7	250	2,190,000	TC-FE	80
TP33	Belt BC-18 to Silo BS-05	7	250	2,190,000	TC-FE	80
TP34	Belt BC-18 to Silo BS-06	7	250	2,190,000	TC-FE	80
TP35	BS-06 to BC-19	7	1,500	2,190,000	LO-UC	80
TP36	BS-05 to BC-19	7	1,500	2,190,000	LO-UC	80
TP37	BS-04 to BC-19	7	1,500	2,190,000	LO-UC	80
TP38	Belt BC-19 to Belt BC-15	7	1,500	2,190,000	TC-FE	80
TP39	BC-15 to BS-02	7	3,500	10,950,000	TC-FE	80
TP40	BS-02 to BS-03	7	3,500	10,950,000	TC-FE	80
TP41	BS-03 to Railcar	7	3,500	10,950,000	LR-TC	75
TP42	Plant to BC-20	10	650	5,694,000	TC-WW	100
TP43	BC-20 to BC-21	10	650	5,694,000	TC-FE	80
TP44	BC-21 to BC-22	10	650	5,694,000	TC-FE	80
TP45	BC-22 to BC-23	10	650	5,694,000	TC-PE	50
TP46	BC-23 to BC-24	10	650	5,694,000	TC-PE	50
TP47	BC-24 to BC-25	10	650	5,694,000	TC-PE	50
TP48	BC-25 to BC-26	10	650	5,694,000	TC-PE	50
TP49	BC-26 to BC-27	10	650	5,694,000	TC-PE	50
TP50	BC-27 to Disposal Area	10	650	5,694,000	TC-MDH	0
	Modification August 2011					
TP51	BC-03 to SS-01 (inside plant)	7	650	5,694,000	TC-FW	90
TP52	BC-03 to SS-02 (inside plant)	7	650	5,694,000	TC-FW	90
TP53	Plant to DS CR-03 (inside plant)	7	400	3,504,000	TC-FW	90
TP54	CR-03 to BC-09 (inside plant)	7	400	3,504,000	TC-FW	90
TP55	Plant to CC CR-04 (inside plant)	7	100	876,000	TC-FW	90
	Modification April 2015					
TP-56	CR-01 Bypass to BC-28	5	200	1,752,000	TC-FE	80

