

Wells Preparation Plant
Plant ID No. 005-00016
Wharton, West Virginia
General Permit Modification Application

SLR Ref: 116.01024.00012

General Permit Modificatiom Application Wells Preparation Plant, Plant ID No. 005-00016 Wharton, West Virginia

Prepared for:

P.O. Box 1001
Scott Depot, West Virginia 25560

This document has been prepared by SLR International Corporation. The material and data in this permit application were prepared under the supervision and direction of the undersigned.

Lori Smith Senior Engineer

Nathaniel Lanham

N L Lanlam

West Virginia Operations Manager

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Note:

Attachment C is not included since this application does not affect previously permitted fugitive sources. Attachment H is not included since there are no baghouse air pollution control devices at this facility.

APPLICATION FOR PERMIT

General Permit Modification Application

Wells Preparation Plant, Plant ID No. 005-00016
Wharton, West Virginia

Eastern Associated Coal, LLC P.O. Box 1001 Scott Depot, West Virginia



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF AIR QUALITY

601 57th Street, SE Charleston, WV 25304

Phone: (304) 926-0475 · www.dep.wv.gov/daq

APPLICATION FOR GENERAL PERMIT REGISTRATION

CONSTRUCT, MODIFY, RELOCATE OR ADMINISTRATIVELY UPDATE STATIONARY SOURCE OF AIR POLLUTANT

	1 Hone: (304) 920-0473	dep.wv.gov/daq	ASTATI	JIVAN I SOUK	CE OF AIR POLLUTANTS					
□CONSTRUC		□RELOCA	_	CLASS I ADMINIS	STRATIVE UPDATE					
	□CLASS II ADMINISTRATIVE UPDATE									
	CHECK WHICH TYPE OF GEN	ERAL PERMIT	REGISTRATION	YOU ARE APPL	YING FOR:					
X G10-D - Coal	X G10-D – Coal Preparation and Handling G40-C – Nonmetallic Minerals Processing									
G20-B – Hot N	Mix Asphalt		☐ G50	-B – Concrete Batc	h					
G30-D – Natu	ral Gas Compressor Stations		☐ G60	-C - Class II Emerç	gency Generator					
G33-A – Spar	k Ignition Internal Combustion Engines		☐G65	-C - Class I Emerg	ency Generator					
G35-A – Natura	al Gas Compressor Stations (Flare/Glyc	col Dehydration U	nit) G70	-A - Class II Oil and	d Natural Gas Production Facility					
	SECT	ION I. GENER	AL INFORMATION	ON						
1. Name of applica	ant (as registered with the WV Secretary CIATED COAL, LLC	of State's Office):	2. Federal Employ 25-1125516	rer ID No. (FEIN):					
3. Applicant's mail	ing address:		4. Applicant's phys							
PO BOX 1001			STATE ROUTE 85							
SCOTT DEPO	T WV 25560		WHARTON WV 25208							
5. If applicant is a	subsidiary corporation, please provide t	he name of parer	nt corporation: PATF	RIOT COAL CORPO	DRATION					
6. WV BUSINESS	REGISTRATION. Is the applicant a res	sident of the State	of West Virginia?	X YES	□no					
_	IF YES , provide a copy of the Certifica change amendments or other Busine				ip (one page) including any name					
_	IF NO , provide a copy of the Certifica amendments or other Business Cert			Registration (one	page) including any name change					
	SECT	TION II. FACILI	TY INFORMATION	ON						
modified, relocated	facility (stationary source) to be constru or administratively updated (e.g., coal		Standard Industrial sification	AND 8b.	North American Industry					
preparation plant, primary crusher, etc.): COAL PREPARATION PLANT			sification (SIC) code	e: Sys	tem (NAICS) code:					
OOALT KEI AKAT	TOWN EARN	1221	1 & 1222	21	2111 & 212112					
9. DAQ Plant ID N	o. (for existing facilities only):		List all current 45C3 this process (for ex		neral Permit numbers associated :					
<u>0 0 5 - 0 0 0 1</u>	<u>6</u>	G10	-C031E							
		1								

A: PRIMARY OPERATING SITE INFORMATION

11A. Facility name of primary operating site:	12A. Address of primary operating s	site:				
WELLS PREPARATION PLANT	Mailing: PO BOX 29 WHARTON W	Mailing: PO BOX 29 WHARTON WV 25208 Physical:SR-85 WHARTON WV 25208				
13A. Does the applicant own, lease, have an op	otion to buy, or otherwise have control o	of the proposed site? X YES NO				
- IF YES , please explain: <u>THE APPLICANT</u>	LEASES THE PROPERTY.					
- IF NO , YOU ARE NOT ELIGIBLE FOR A F	PERMIT FOR THIS SOURCE.					
14A. – For Modifications or Administrative nearest state road;	Updates at an existing facility, please p	provide directions to the present location of the facility from the				
 For Construction or Relocation permits 	s, please provide directions to the propo	osed new site location from the nearest state road. Include a				
MAP as Attachment F.						
LOCATED 0.5 MILES SOUTH OF WHARTO	ON ON STATE ROUTE 85 BETWEEN	BIM AND PONDCO				
15A. Nearest city or town:	16A. County:	17A. UTM Coordinates:				
WHARTON	BOONE	Northing (KM): 4,195.5				
Www.s.		Easting (KM): <u>440.4</u> Zone: <u>17</u>				
18A. Briefly describe the proposed new operation	on or change (s) to the facility:	19A. Latitude & Longitude Coordinates (NAD83,				
See Attachment B		Decimal Degrees to 5 digits): Latitude: 37.91861				
		Longitude: <u>81.68083</u>				
B: 1 ST ALTERNATE OPERA	TING SITE INFORMATION (only availa	able for G20, G40, & G50 General Permits)				
11B. Name of 1 st alternate operating site:	12B. Address of 1 st alternate operat					
	Mailing:	Physical:				
	g.					
13B. Does the applicant own, lease, have an op	otion to buy, or otherwise have control or	of the proposed site? YES NO				
- IF YES, please explain:	•	<u> </u>				
IF NO , YOU ARE NOT ELIGIBLE FOR A F	PERMIT FOR THIS SOURCE.					

14B. — For Modifications or Administrative U nearest state road;	pdates at an existing facility, please provide	directions to the present location of the facility from the
For Construction or Relocation permits, MAP as Attachment F.	please provide directions to the proposed nev	w site location from the nearest state road. Include a
15B. Nearest city or town:	16B. County:	17B. UTM Coordinates:
		Northing (KM): Easting (KM):
		Zone:
18B. Briefly describe the proposed new operation	or change (s) to the facility:	19B. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits):
		Latitude:
		Longitude:
C: 2 ND ALTERNATE OPERATII	NG SITE INFORMATION (only available for	G20, G40, & G50 General Permits):
11C. Name of 2 nd alternate operating site:	12C. Address of 2 nd alternate operating site	95
	Mailing:	Physical:
	_	·
13C. Does the applicant own, lease, have an opti	on to hurry or otherwise have control of the pro-	oposed site? YES NO
If YES, please explain:		· — —
, , ,		
- IF NO , YOU ARE NOT ELIGIBLE FOR A PE	ERMIT FOR THIS SOURCE.	
14C. — For Modifications or Administrative U nearest state road;	pdates at an existing facility, please provide	directions to the present location of the facility from the
For Construction or Relocation permits, MAP as Attachment F.	please provide directions to the proposed nev	w site location from the nearest state road. Include a
450 Nearth division to the second	L400 0	470 UTM 0
15C. Nearest city or town:	16C. County:	17C. UTM Coordinates: Northing (KM):
		Easting (KM):
ACC Printed described to	and the state of t	Zone:
18C. Briefly describe the proposed new operation	or change (s) to the facility:	19C. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits):
		Latitude:
		Longitude:

20. Provide the date of anticipated installation or change:	21. Date of anticipated Start-up if registration is granted:					
	AFTER-THE-FACT					
☐ If this is an After-The-Fact permit application, provide the date upon which the proposed change did happen: :						
AFTER-THE-FACT						
22. Provide maximum projected Operating Schedule of activity/activities outlined in this application if other than 8760 hours/year. (Note: anything other than 24/7/52 may result in a restriction to the facility's operation).						
Hours per day <u>24</u> Days per week <u>7</u> Weeks per year <u>52</u> Perc	entage of operation <u>100</u>					

SECTION III. ATTACHMENTS AND SUPPORTING DOCUMENTS
23. Include a check payable to WVDEP – Division of Air Quality with the appropriate application fee (per 45CSR22 and 45CSR13).
24. Include a Table of Contents as the first page of your application package.
All of the required forms and additional information can be found under the Permitting Section (General Permits) of DAQ's website, or requested by phone.
25. Please check all attachments included with this permit application. Please refer to the appropriate reference document for an explanation of the attachments listed below.
X ATTACHMENT A: CURRENT BUSINESS CERTIFICATE
X ATTACHMENT B: PROCESS DESCRIPTION
ATTACHMENT C: DESCRIPTION OF FUGITIVE EMISSIONS
X ATTACHMENT D: PROCESS FLOW DIAGRAM
X ATTACHMENT E: PLOT PLAN
X ATTACHMENT F: AREA MAP
X ATTACHMENT G: EQUIPMENT DATA SHEETS AND REGISTRATION SECTION APPLICABILITY FORM
ATTACHMENT H: AIR POLLUTION CONTROL DEVICE SHEETS
X ATTACHMENT I: EMISSIONS CALCULATIONS
X ATTACHMENT J: CLASS I LEGAL ADVERTISEMENT
X ATTACHMENT K: ELECTRONIC SUBMITTAL
X ATTACHMENT L: GENERAL PERMIT REGISTRATION APPLICATION FEE
ATTACHMENT M: SITING CRITERIA WAIVER
X ATTACHMENT N: MATERIAL SAFETY DATA SHEETS (MSDS)
X ATTACHMENT O: EMISSIONS SUMMARY SHEETS
OTHER SUPPORTING DOCUMENTATION NOT DESCRIBED ABOVE (Equipment Drawings, Aggregation Discussion, etc.)
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 of this application. Please DO NOT fax permit applications. For questions regarding applications or West

the address shown on the front page of this application. Please DO NOT fax permit applications. For questions regarding applications or West Virginia Air Pollution Rules and Regulations, please refer to the website shown on the front page of the application or call the phone number also provided on the front page of the application.

SECTION IV. CERTIFICATION OF INFORMATION

This General Permit Registration Application shall be signed below by a Responsible Official. A Responsible Official is a President, Vice President, Secretary, Treasurer, General Partner, General Manager, a member of a Board of Directors, or Owner, depending on business structure. A business may certify an Authorized Representative who shall have authority to bind the Corporation, Partnership, Limited Liability Company, Association, Joint Venture or Sole Proprietorship. Required records of daily throughput, hours of operation and maintenance, general correspondence, Emission Inventory, Certified Emission Statement, compliance certifications and all required notifications must be signed by a Responsible Official or an Authorized Representative. If a business wishes to certify an Authorized Representative, the official agreement below shall be checked off and the appropriate names and signatures entered. Any administratively incomplete or improperly signed or unsigned Registration Application will be returned to the applicant.

	FOR A CORPORATION (domestic or foreign)	•	
Ş	I certify that I am a President, Vice President, Sec corporation	cretary, Treasurer or in charge of a principal busines	ss function of the
	FOR A PARTNERSHIP		
	I certify that I am a General Partner		
	FOR A LIMITED LIABILITY COMPANY		
	X I certify that I am a General Partner or General Ma	anager	
	FOR AN ASSOCIATION		
	I certify that I am the President or a member of the	e Board of Directors	
	FOR A JOINT VENTURE		
	I certify that I am the President, General Partner of	r General Manager	
	FOR A SOLE PROPRIETORSHIP		
	I certify that I am the Owner and Proprietor		
⊠ I he	reby certify that (please print or type)	on A Ross	
is an Au Liability change X I he hereto i	thorized Representative and in that capacity shall represent Company, Association Joint Venture or Sole Proprietorship) is its Authorized Representative, a Responsible Official shall representative that all information contained in this General Pends, to the best of my knowledge, true, accurate and complete,	and may obligate and legally bind the business. If to notify the Director of the Office of Air Quality immed the Director Application and any supporting documents.	the business diately, and/or,
Compre	nensive information possible	2.12	1
Signature	ugg A. Koss	213	,115
(please use blue ink)	Responsible Official	Date	
Name & Title GF	REGORY A. ROSS, ATTORNEY-IN-FACT		
(Prodec F 2. 3/F.)			
Signature	Authorized Representative (if applicable)	Date	
(please use blue lilk)	минопией кергезептануе (п аррпсавле)	Date	
Applicant's Nam	e <u>EASTERN ASSOCIATED COAL, LLC</u>		
Phone & Fax 3		304-720-8212	
	Phone	Fax	
Email gross@pa	atriotcoal.com		

ATTACHMENT A BUSINESS CERTIFICATE

General Permit Modification Application

Wells Preparation Plant, Plant ID No. 005-00016
Wharton, West Virginia

Eastern Associated Coal, LLC P.O. Box 1001 Scott Depot, West Virginia

WEST VIRGINIA STATE TAX DEPARTMENT BUSINESS REGISTRATION CERTIFICATE

ISSUED TO:
EASTERN ASSOCIATED COAL LLC
PO BOX 29
WHARTON, WV 25208-0029

BUSINESS REGISTRATION ACCOUNT NUMBER:

1022-9061

This certificate is issued on:

06/23/2011

This certificate is issued by the West Virginia State Tax Commissioner in accordance with Chapter 11, Article 12, of the West Virginia Code

The person or organization identified on this certificate is registered to conduct business in the State of West Virginia at the location above.

This certificate is not transferrable and must be displayed at the location for which issued.

This certificate shall be permanent until cessation of the business for which the certificate of registration was granted or until it is suspended, jovoked of cancelled by the Tax Commissioner.

Change in name or change of location shall be considered a cessation of the business and a new certificate shall be required.

TRAVELING/STREET VENDORS: Must carry a copy of this certificate in every vehicle operated by them. CONTRACTORS, DRILLING OPERATORS, TIMBER/LOGGING OPERATIONS: Must have a copy of this certificate displayed at every job site within West Virginia.

atL006 v.4 L0212237440

ATTACHMENT B PROCESS DESCRIPTION

General Permit Modification Application

Wells Preparation Plant, Plant ID No. 005-00016
Wharton, West Virginia

Eastern Associated Coal, LLC P.O. Box 1001 Scott Depot, West Virginia

Wells Preparation Plant

Introduction

This update documents the removal/addition of equipment. The modified process description below summarizes the changes. However, the information from the approved Class General Permit: G10-D031E has been updated and included as well.

Modified Process Description

All processes remain the same as permitted under G10-C031C except the following:

- A. The current permit equipment table states that Black Stallion Overland Belt conveyor (BC43) receives raw coal from Rivers Edge and transfers it to belt conveyor (BC37) via transfer point (T73) the visual inspection found that the raw is transferred to belt conveyor BC38 not BC37.
- B. Belt conveyor (BC37) was found to receive raw coal from the Black Stallion Mine not belt conveyor (BC43) and transfers it to belt Conveyor (BC38) via transfer point (T66).
- C. Raw coal belt conveyor (BC7) was found to receive raw coal from belt conveyor (BC42) only. Belt conveyor (BC3) is no longer in service. Raw coal is then transferred to belt conveyor (BC8) via transfer point (T3).
- D. Raw coal belt conveyor (BC4) transfers to belt conveyor (BC8A) via transfer point (T3A).
- E. Raw coal conveyor (BC8) was found to no longer receive raw coal from belt conveyor (BC4). Belt conveyor (BC8) receives raw coal from belt conveyor (BC7) and transfers it via transfer point (T7) to raw coal bin (BS5).
- F. Raw coal bin (BS5) receives raw coal from belt conveyor (BC8) stores it then transfers it to belt conveyor (BC14) via transfer point (T12) or through chute to open stock pile (OS4) via transfer point (T9).
- G. Belt conveyor (BC13) was found to be no longer in service.
- H. Raw coal bin (BS4) receives raw coal from belt conveyor (BC8A) and/or belt conveyor (BC11), stores it then transfers it to belt conveyor (BC14) via transfer point (T13) or through chute to open stock pile (OS4) via transfer point (T9).
- I. Belt conveyors (BC9, BC10, BC12, BC35, and BC36) were not found on site during the inspection.
- J. Remove raw coal open stockpile (OS-7), raw coal bin (BS7), crusher (CR4) and belt conveyor (BC22). All related to the Cook Mountain Upper Area.

- K. Remove belt conveyor (BC1), crusher (CR5), raw coal bin (BS1) and belt conveyor (BC2). All related to the Dakota Mine.
- L. Remove the never constructed crusher (CR3) associated with the Cook Mountain Lower Area.
- M. BC19 receives clean coal from the wet wash preparation plan and transfers it to BC20 via transfer points (T20D through T20I).
- N. BC29 receives refuse from the preparation plant and transfers it to BC30 via transfer points (T20B and T20C).

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.)	П
Section 10	Tanks	$\overline{\Box}$
Section 11	Standards of Performance for Stationary Compression Ignition Internal	H
	Combustion Engines (40CFR60 Subpart IIII)	Ш
Section 12	Standards of Performance for Stationary Spark Ignition Internal	
	Combustion Engines (40CFR60 Subpart JJJJ)	

Emission Units

Equip- ment	Date of Construction,	G10-D Applicable	Emission Unit	Design Capacity		Control
ID#	Reconstruction or Modification ¹	Sections ²	Description	ТРН	TPY	Device ³
			Dakota Mine (To be Removed)		•	
BC1	Not in Use C - 1978	<mark>5 and 6</mark>	Dakota Mine Raw Coal Conveyor - 48" wide - 800 feet per minute ("FPM") belt speed - transfers raw coal from the mine to CR5	2,500	10,500,000	PE
CR5	Not in Use C - 1998	<mark>5 and 6</mark>	Double Roll Crusher - receives raw coal from BC1 and transfers it to BS1	2,500	10,500,000	FE
BS1	Not in Use 	<mark>5 and 6</mark>	Raw Coal Bin - 500 ton capacity - receives crushed raw coal from CR5, storesit and then and transfers it to BC2		10,500,000	FE
BC2	Not in Use C-1998	<mark>5 and 6</mark>	Dakota Mine Transfer Conveyor - 48" wide - 800 FPM belt speed - receives crushed raw coal from BS1and transfers it to BC7	2,500	10,500,000	PE
			Rivers Edge Campbell Creek No. 10 (CC10)			
BC43	C - 2006	5 and 6	Raw Coal Overland Conveyor (#377) - 48" wide - 700 FPM belt speed - receives raw coal from Rivers Edge CC10 and transfers it to BC37 BC38 (see Black Stallion Mine below)	2,250	10,050,000	PE
			Black Stallion Mine			
BC37	C - 2004	5 and 6	Black Stallion Mine Conveyor (#361) - 60" wide - 800 FPM belt speed - receives raw coal from the mine and BC43 and transfers it to BC38	3,500	10,500,000	PE
BC38	C - 2004	5 and 6	Raw Coal Conveyor (#362) - 60" wide - 800 FPM belt speed - receives raw coal from BC37 and transfers it to OS5	3,500	10,500,000	PE
OS5		5 and 6	Lower Area Clean/Raw Coal Open Storage Pile w/ Stacking Tube -105,000 ton capacity - receives raw coal from BC38 or trucks via HR3, stores it and then an endloader loads it to trucks or it drops to BC39		10,500,000	N
BC39	C - 2004	5 and 6	Raw Coal Reclaim Conveyor (#363) - 48" wide - 700 FPM belt speed - receives raw coal from OS5 and transfers it to BC40	2,000	10,500,000	PE

Equip-	Date of Construction,	G10-D	G10-D Emission Unit Applicable Description	Design	n Capacity	Control
ment ID#	Reconstruction or Modification ¹			ТРН	TPY	Device ³
BC40	C - 2004	5 and 6	Raw Coal Conveyor (#364) - 48" wide - 700 FPM belt speed - receives raw coal from BC39 and transfers it to BC41	2,000	10,500,000	PE
BC41	C - 2004	5 and 6	Raw Coal Conveyor (#364) - 48" wide - 700 FPM belt speed - receives raw coal from BC40 and transfers it to BC42	2,000	10,500,000	PE
BC42	C - 2006	5 and 6	Raw Coal Overland Conveyor (#364) - 48" wide - 700 FPM belt speed - receives raw coal from BC41 and transfers it to BC7 (see Lightfoot Mines below)	2,000	10,500,000	PE
	•		Lightfoot Mines No. 1, No. 2, and No. 3			
BC3	Not in Use C - 1978	5 and 6	Lightfoot No. 1 Mine Belt Conveyor - 48" wide - 800 FPM belt speed - receives raw coal from the mine and transfers it to BC7	2,500	10,500,000	PE
BC10	C - 1978	5 and 6	Raw Coal Conveyor - 48" wide - 800 FPM belt speed - receives raw coal from BC3 and BC4 and transfers it to BS4 or BC11	2,500	10,500,000	PE
BC7	C - 1978	5 and 6	Raw Coal Conveyor (#205) - 48" wide - 800 FPM belt speed - receives raw coal from BC3 and BC42 and transfers it to BC8	2,500	10,500,000	PE
BC4	C - 1978	5 and 6	Lightfoot No. 2 Mine Belt Conveyor - 48" wide - 800 FPM belt speed - receives raw coal from the mine and transfers it to BC8A	2,500	10,500,000	PE
BC8	C - 1978	5 and 6	Raw Coal Conveyor - 48" wide - 800 FPM belt speed - receives raw coal from BC4 and BS7 BC7 and transfers it to BS5 or BC13	2,500	10,500,000	PE
BC8A		5 and 6	Raw Coal Conveyor – 48" wide – 800 FPM belt speed – receives raw coal from BC4 and transfers it to BS4	2,500	10,500,000	PE
BS5		5 and 6	Raw Coal Silo - 6,000 ton capacity - receives raw coal from BC8 and BC13, stores it and then drops it to BC14 (see Raw Coal to Preparation Plant below) or through a chute to OS4		10,500,000	FE
BC13	Not in Use C - 1978	<mark>5 and 6</mark>	Silo Transfer Conveyor - 48" wide - 800 FPM belt speed - receives raw coal from BC8 and transfers it to BS4 or from BC12 and transfers it to BS5	2,500	10,500,000	PE
BS4		5 and 6	Raw Coal Silo - 6,000 ton capacity - receives raw coal from BC13 and BC12 BC8A or BC11, stores it and then drops it to BC14 (see Raw Coal to Preparation Plant below) or through a chute to OS4		10,500,000	FE
OS4		5 and 6	Raw Coal Silo Overflow Open Storage Pile - 15,000 ton capacity - receives raw coal from BS4 and BS5, stores it and an endloader moves it to BS6		210,000	N
BS6		5 and 6	Endloader Feed Bin - 4 ton capacity - receives raw coal from and endloader and drops it to BC14 (see Raw Coal to Preparation Plant below)		210,000	PE, WS
BC9	Not in Use C - 1978	5 and 6	Lightfoot No. 3 Mine Conveyor – 68" wide – 800 FPM belt speed – receives- raw coal from the mine and transfers it to BC35	4,600	10,500,000	PE PE
BC35	C-2001	5 and 6	Raw Coal Conveyor – 68" wide – 700 FPM belt speed – receives raw coal from	4,600	10,500,000	PE
BC36	C-2001	<mark>5 and 6</mark>	BC9 and transfers it to BC36) Raw Coal Transfer Conveyor - 68" wide - 700 FPM belt speed - receives raw coal- from BC35 and transfers it to BS4 or BC11	4,600	10,500,000	PE PE
BC11	C - 1978	5 and 6	Silo Transfer Conveyor - 48" wide - 800 FPM belt speed - receives raw coal from BC10 and BC36 BC6 and transfers it to BS3 BS4	2,500	10,500,000	PE FE
	l		CC11 Mine and Foreign Coal Hopper		1	
BC5	C - 1978	5 and 6	CC11 Mine Raw Coal Conveyor - 48" wide - 800 FPM belt speed - receives raw coal from the mine and transfers it to BS2	2,500	10,500,000	PE
BS2	C - 1978	5 and 6	Foreign Coal Dump Hopper - 50 ton capacity - receives raw coal from BC5 and trucks and drops it to BC6		10,500,000	PE, WS
BC6	C - 1978	5 and 6	Raw Coal Conveyor - 48" wide - 800 FPM belt speed - receives raw coal from BS2 and transfers it to BS3 or BC12 or BC11	2,500	10,500,000	PE
BS3		5 and 6	Raw Coal Silo - 5,000 ton capacity - receives raw coal from BC6, stores it and then drops it to BC14 (see Raw Coal to Preparation Plant below)		10,500,000	FE
BC12	C-1978	<mark>5 and 6</mark>	Silo Transfer Conveyor - 48" wide - 800 FPM belt speed - receives raw coal from BC6 and transfers it to BS4-	2,500	10,500,000	PE
	•		Raw Coal to Preparation Plant		•	
BC14	C - 1978	5 and 6	Breaker/Screen Feed Conveyor - 48" wide - 700 FPM belt speed - receives raw coal from BS-3, BS-4, BS-5 and BS6 and transfers it to S1 or CR1	2,000	10,500,000	PE
S1	C - 2000	5 and 6	Double Deck Banana Scalping Screen - receives raw coal from BC14, sizes it and drops the fines to BC15, sized product to BC16 and oversize to CR1)	2,000	10,500,000	FE
BC15	C - 2000	5 and 6	Under Screen Conveyor - 60" wide - 300 FPM belt speed - receives fine raw coal from S1 and transfers it to BC16 or BC18	1,000	7,000,000	PE

Equip-Date of Construction,		G10-D	Emission Unit	Design	Control	
ment ID#	Reconstruction or Modification ¹	Applicable Sections ²	Description	ТРН	TPY	Device ³
BC18	C - 2000	5 and 6	Prep Plant Bypass Conveyor - 36" wide - 600 FPM belt speed - receives fine raw coal from BC15 and transfers it to BC19 (see Clean Coal Storage and Loadout below)	1,000	7,000,000	PE
CR1	C - 1990	5 and 6	Rotary Breaker - receives oversize raw coal from S1, crushes it and drops crushed coal to BC16 and refuse to BC28 (see Refuse Circuit below)	1,500	10,500,000	FE
BC16	C - 2000	5 and 6	Sized Product Conveyor - 48" wide - 500 FPM belt speed - receives sized raw coal from CR1 and S1 and transfers it to BC17	1,400	10,500,000	PE
BC17	C - 2000	5 and 6	Main Prep Plant Feed Conveyor - 48" wide - 500 FPM belt speed - receives sized raw coal from BC16 and transfers it to the wet wash preparation plant	1,400	10,500,000	PE
			Cook Mountain Upper Area (To be Removed)		ı	
OS7	Not Constructed	To be determined	Cook Mountain Upper Open Storage Pile - 10,000 ton capacity - receives direct ship coal from trucks, stores it and then an endloader transfers it to BS7		315,000	N.
BS7	Not Constructed	To be	Cook Mountain Upper Raw Coal Bin – 50 ton capacity – receives direct ship coal from trucks and endloaders and drops it to CR4		2,000,000	PE, WS
CR4	Not Constructed	determined To be determined	Pick Breaker - receives direct ship coal from BS7, crushes it and then drops it to-BC22	1,500	2,000,000	FE
BC22	Not Constructed	To be- determined	Cook Mountain Upper Transfer Belt Conveyor - 48" wide - 600 FPM belt speed receives crushed direct ship coal from CR4 and transfers it to BS8 or BS9 (see Cook Mountain Lower Area below)	1,500	2,000,000	PE.
			Cook Mountain Lower Area			
OS8		5 and 6	Cook Mountain Lower Open Storage Pile - 5,500 ton capacity - receives direct ship coal from trucks, stores it and then an endloader transfers it to BS8		315,000	N
BS8		5 and 6	Cook Mountain Lower Raw Coal Bin -100 ton capacity - receives direct ship coal from trucks, endloaders and BC22 and drops it to CR2		2,000,000	PE, WS
CR2	2000	5 and 6	Hammermill Crusher w/ Vibrating Feeder - receives direct ship coal from BS8, crushes it and then drops it to BC23	1,500	2,000,000	FE
BS9		5 and 6	Cook Mountain Lower Raw Coal Bin -100 ton capacity - receives direct ship coal from trucks, endloaders and BC22 and drops it to CR3 CR2		2,000,000	PE, WS
CR3	Not Constructed	To be determined	Hammermill Crusher w/ Vibrating Feeder - receives direct ship coal from BS8, erushes it and then drops it to BC23	1,500	2,000,000	FE
BC23	1970	5 and 6	Cook Mountain Lower Transfer Belt Conveyor - 48" wide - 600 FPM belt speed - receives crushed direct ship coal from BS8 and BS9 and transfers it to BS10 or BS11 (see Clean Coal Storage and Loadout below)	1,500	2,000,000	PE
			Clean Coal Storage and Loadout			
BC19	C 1978	5 and 6	Clean Coal Output Belt Conveyor - 42" wide - 700 FPM belt speed - receives clean coal from the wet wash preparation plant and transfers it to BC20	1,550	6,000,000	PE
BC20	C 1978	5 and 6	Clean Coal Belt Conveyor - 42" wide - 700 FPM belt speed - receives clean coal from BC19 and transfers it to BS10 or BC21	1,550	6,000,000	PE
BS10		5 and 6	Clean Coal Silo - 5,000 ton capacity - receives clean coal from BC20 and direct ship coal from BC23, stores it and then drops it to BC26		6,000,000	FE
BC21	C 1978	5 and 6	Clean Coal Belt Conveyor - 42" wide - 700 FPM belt speed - receives clean coal from BC20 and transfers it to BS11or BC24	1,550	6,000,000	PE
BS11		5 and 6	Clean Coal Silo - 5,000 ton capacity - receives clean coal from BC21 and direct ship coal from BC23, stores it and then drops it to BC26		6,000,000	FE
BC26	C 1978	5 and 6	Under Clean Coal Silos Conveyor - 42" wide - 700 FPM belt speed - receives clean and direct ship coal from BS10 and BS11 and transfers it to BC26A	2,000	6,000,000	FE
BC26A	C 1978	5 and 6	Clean Coal Conveyor - 42" wide - 700 FPM belt speed - receives clean and direct ship coal from BC26 and transfers it to BC27 (see below)	2,000	6,000,000	PE
BC24	C 1978	5 and 6	Clean Coal Conveyor - 42" wide - 700 FPM belt speed - receives clean coal from BC21 and transfers it to OS1or BC25	1,550	6,000,000	PE
OS1		5 and 6	Clean Coal Open Storage Pile w/ Stacking Tube - 75,000 ton capacity - receives clean coal from BC24, stores it and then it drops to BC27		6,000,000	N
BC25	C 1978	5 and 6	Clean Coal Belt Conveyor - 42" wide - 700 FPM belt speed - receives clean coal from BC24 and transfers it to OS2	850	6,000,000	PE
OS2		5 and 6	Clean Coal Open Storage Pile w/ Stacking Tube - 75,000 ton capacity - receives clean coal from BC25, stores it and then it drops to BC27		6,000,000	N

Equip- Construction,		G10-D	Emission Unit	Design	Control	
ment ID#	Reconstruction or Modification ¹	Applicable Sections ²	Description	TPH TPY Device ³	Device ³	
BC27	C 1990	5 and 6	Railroad Loadout Conveyor - 42" wide - 800 FPM belt speed - receives clean and direct ship coal from OS1, OS2 and BC26A and transfers it to BS12	4,000	6,000,000	FE
BS12		5 and 6	Train Loadout Bin - 200 ton capacity - receives clean and direct ship coal from BC27 and then loads it to railcars		6,000,000	FE
			Portable Screening Unit			-
H-1	C July 2009	5 and 8	Portable Hopper - receives clean coal from OS1 via an endloader and drops it to PS-1	500	500,000	PE, WS
PS-1	C July 2009	5 and 8	Portable Single Deck Screen - receives clean coal from H-1, sizes it and the -2" fine coal drops to BC-1P while the +2" oversize coal drops to BC-2P	500	500,000	PE, WS
BC-1P	C July 2009	5 and 8	Portable Belt Conveyor - receives -2" fine coal from PS-1 and transfers it to OS2	500	500,000	N
BC-2P	C July 2009	5 and 8	Portable Belt Conveyor - receives +2" oversize coal from PS-1 and transfers it to OS1	500	500,000	N
	•		Miscellaneous Open Storage		•	•
OS6		5 and 6	Upper Open Storage Pile for Raw or Clean Coal Storage - 40,000 ton capacity - receives raw or clean coal from trucks, stores it and then an endloader loads it back onto trucks		315,000	N
	•		Refuse Circuit		•	•
BC28	C 1978	5 and 6	CR1 Reject Conveyor - receives oversize refuse from CR1 and transfers it to BC30)	750	5,300,000	PE
BC29	C 1978	5 and 6	Preparation Plant Reject Conveyor -receives refuse from the preparation plant and transfers it to BC30	750	5,300,000	PE
BC30	C 1978	5 and 6	Refuse Transfer Conveyor - receives refuse from BC28 and BC29 and transfers it to BS13 or BC31	750	5,300,000	PE
BS13		5 and 6	Refuse Bin - 300 ton capacity - receives refuse from BC30 and then loads it to trucks		5,300,000	FE
BC31	C 1978	5 and 6	Refuse Transfer Conveyor [Underground] - receives refuse from BC30 and transfers it to BS14 or BC32	750	5,300,000	PE
BC32	C 1978	5 and 6	Refuse Transfer Conveyor - receives refuse from BC31 and transfers it to BS14 or BC33	750	5,300,000	PE
BS14		5 and 6	Refuse Bin - 1,000 ton capacity - receives refuse from BC32 and then loads it to trucks		5,300,000	FE
BC33	C 1978	5 and 6	Refuse Transfer Conveyor - receives refuse from BC32 and transfers it to BS15 or BC34	750	5,300,000	PE
BS15		5 and 6	Refuse Bin - 500 ton capacity - receives refuse from BC33 and then loads it to trucks		5,300,000	FE
BC34	C 1990	5 and 6	Refuse Transfer Conveyor - receives refuse from BC33 and transfers it to OS3	750	5,300,000	PE
OS3		5 and 6	Refuse Open Storage Pile - 10,000 ton capacity - receives refuse from BC34, stores it and then an endloader loads it to trucks		210,000	N

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. 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.

Emission Limitations

Facility-wide Emissions Summary Eastern Associated Coal, LLC		Controlled nissions	Maximum Controlled PM ₁₀ Emissions							
Wells Preparation Plant	lb/hour	TPY	lb/hour TPY							
	Fugitive Emissions									
Open Storage Pile Emissions	0.8 1.10	3.48 4.82	0.37 0.52	1.64 2.27						
Unpaved Haulroad Emissions	130.01 0.00	400.89 659.0	58.5 0.00	180.40 132.32						

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.

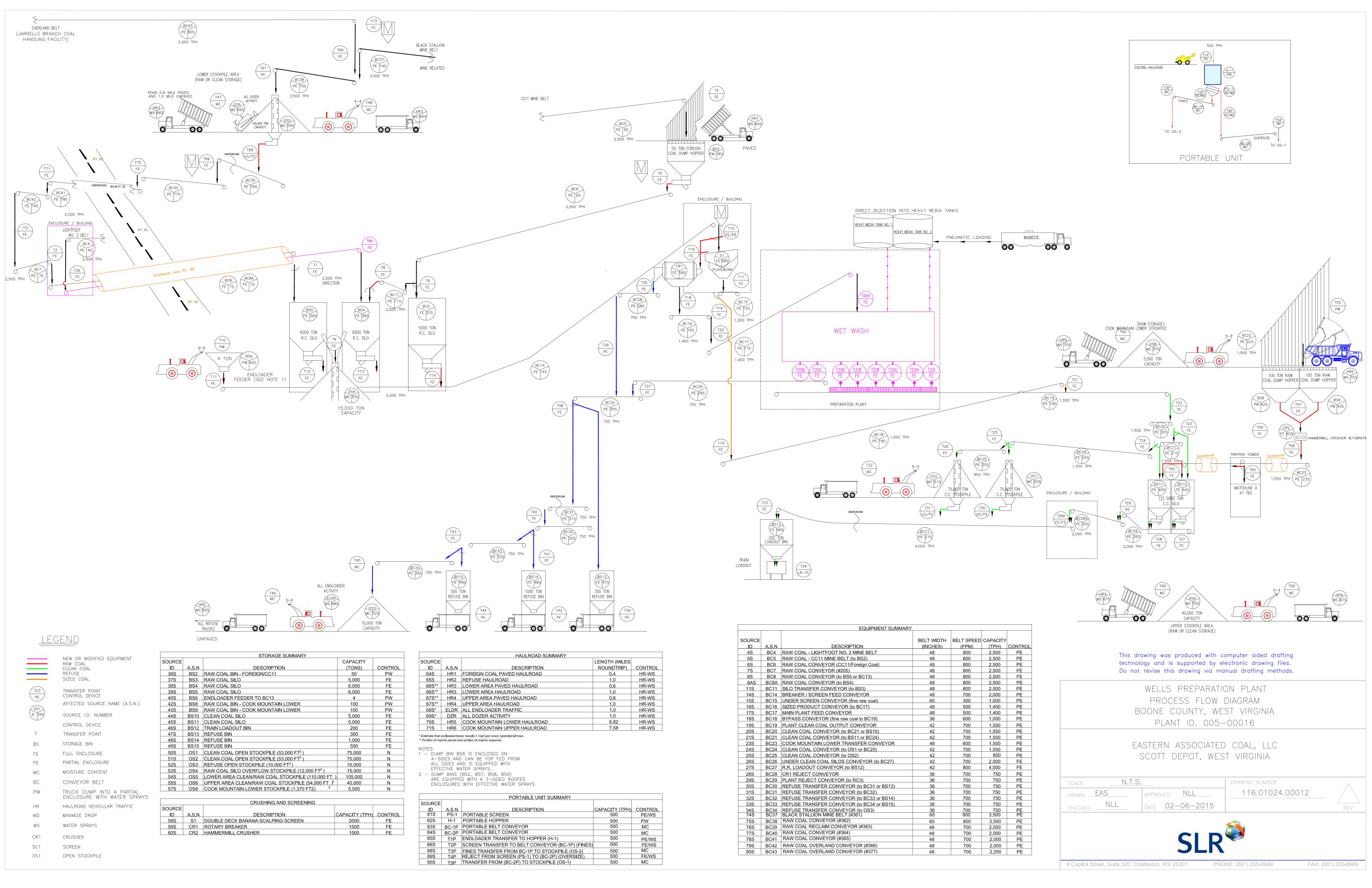
Control Device Abbreviations: FE - Full Enclosure; PE - Partial Enclosure; WS - Water Sprays; and N - None.

ATTACHMENT D PROCESS FLOW DIAGRAM

General Permit Modification Application

Wells Preparation Plant, Plant ID No. 005-00016
Wharton, West Virginia

Eastern Associated Coal, LLC P.O. Box 1001 Scott Depot, West Virginia

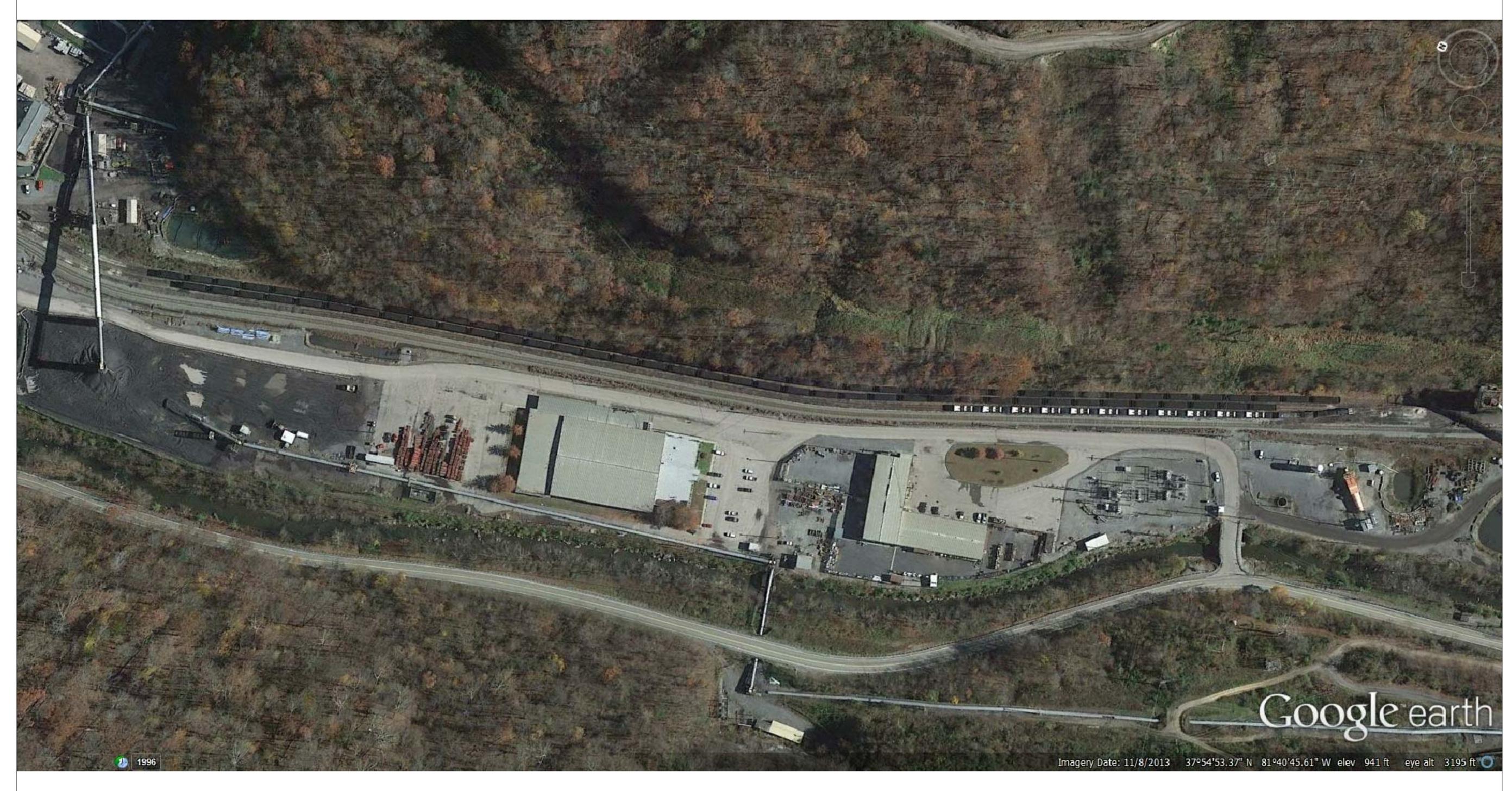


ATTACHMENT E PLOT PLAN

General Permit Modification Application

Wells Preparation Plant, Plant ID No. 005-00016
Wharton, West Virginia

Eastern Associated Coal, LLC P.O. Box 1001 Scott Depot, West Virginia



This drawing was produced with computer aided drafting technology and is supported by electronic drawing files. Do not revise this drawing via manual drafting methods.

WELLS PREPARATION PLANT AERIAL IMAGE BOONE COUNTY, WEST VIRGINIA PLANT ID. 005-00016

EASTERN ASSOCIATED COAL, LLC SCOTT DEPOT, WEST VIRGINIA

 SCALE:
 N.T.S.
 DRAWING NUMBER

 DRAWN
 EAS
 APPROVED
 NLL
 1 of 2

 CHECKED
 NLL
 DATE
 02-06-2015
 02-06-2015







This drawing was produced with computer aided drafting technology and is supported by electronic drawing files. Do not revise this drawing via manual drafting methods.

WELLS PREPARATION PLANT AERIAL IMAGE BOONE COUNTY, WEST VIRGINIA PLANT ID. 005-00016

EASTERN ASSOCIATED COAL, LLC SCOTT DEPOT, WEST VIRGINIA

 SCALE:
 N.T.S.
 DRAWING NUMBER

 DRAWN
 EAS
 APPROVED
 NLL
 2 of 2

 CHECKED
 NLL
 DATE
 02-06-2015
 2

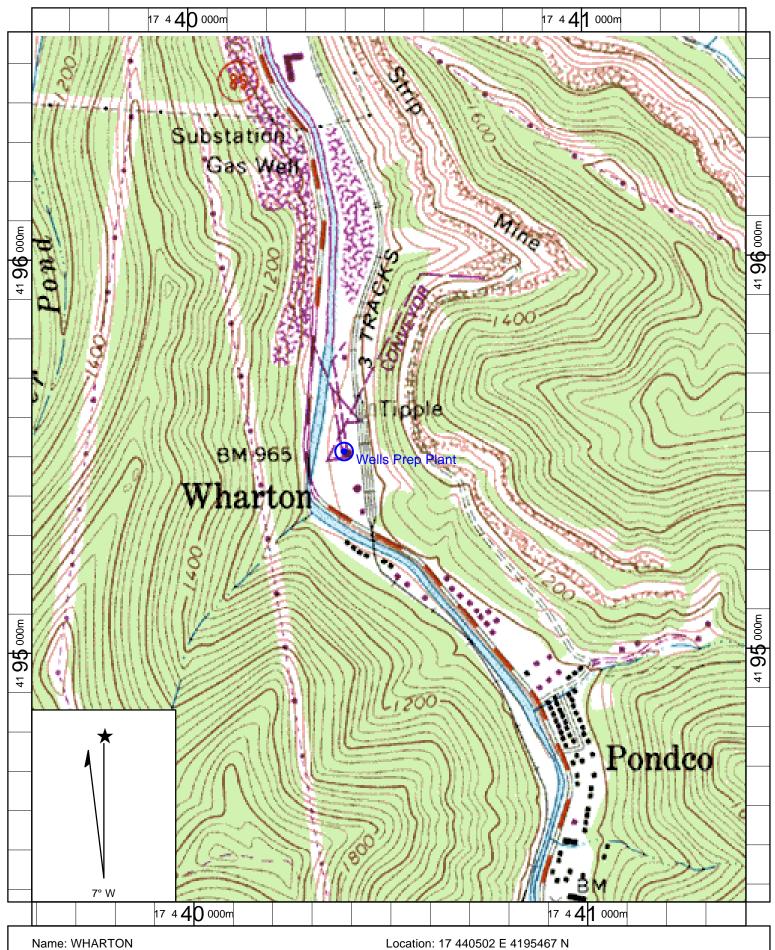


ATTACHMENT F AREA MAP

General Permit Modification Application

Wells Preparation Plant, Plant ID No. 005-00016
Wharton, West Virginia

Eastern Associated Coal, LLC P.O. Box 1001 Scott Depot, West Virginia



Date: 12/20/2005 Scale: 1 inch equals 800 feet

Location: 17 440502 E 4195467 N Caption: Wells Preparation Plant Area Map

ATTACHMENT G AFFECTED SOURCE SHEETS

General Permit Modification Application

Wells Preparation Plant, Plant ID No. 005-00016
Wharton, West Virginia

Eastern Associated Coal, LLC P.O. Box 1001 Scott Depot, West Virginia

CONVEYING AFFECTED SOURCE SHEET

Source Identification	Date of Construction, Reconstruction, or Modification	Type of Material Handled ³	Size of Material		n Material er Rate ⁵	Average Moisture Content	Control Device ⁷	
Number ¹	(Month/Year) ²	Handled	Handled ⁴	tons/hour	tons/year	(%) ⁶		
BC43	C - 2006	RC		2,250	10,500,000		PE	
BC38	C - 2004	RC		3,500	10,500,000		PE	
BC37	C - 2004	RC		3,500	10,500,000		PE	
BC42	C - 2006	RC		2,000	10,500,000		PE	
BC7	C - 1978	RC		2,500	10,500,000		FE	
BC8	C - 1978	RC		2,500	10,500,000		FE	
BC8A		RC		2,500	10,500,000		FE	
BC14	C - 1978	RC		2,000	10,500,000		PE	

1. Enter the appropriate Source Identification Number for each conveyor using the following codes. For example, multiple belt conveyors should be designated BC-1, BC-2, BC-3 etc. Transfer points are considered emission points, not sources, and should not be included in the *Conveying Affected Source Sheet*. Transfer Point Identification Numbers shall be assigned in the *Emission Calculation Sheet*.

BC Belt Conveyor BE Bucket Elevator DL Drag-link Conveyor PS Pneumatic System SC Screw Conveyor VC Vibrating Conveyor

OT Other

- 2. Enter the date that each crusher and screen was constructed, reconstructed, or modified.
- 3. Enter the type of material being handled Raw Coal (RC) Sized Coal (SC) Clean Coal (CC) Refuse (R) Other (O)
- 4. Enter the nominal size of the material being conveyed (e.g. clean coal ¾" x 0). If more than one material is handled by the listed conveyor, list each material and enter the appropriate data for each material.
- 5. Enter the maximum material transfer rate for each conveyor in tons per hour and tons per year.
- 6. Enter the average percent moisture content of the conveyed material.
- 7. Enter the control device for the conveyor. PE Partial Enclosure (example 3/4 hoop), FE Full Enclosure, N None

ATTACHMENT I EMISSIONS CALCULATIONS

General Permit Modification Application

Wells Preparation Plant, Plant ID No. 005-00016
Wharton, West Virginia

Eastern Associated Coal, LLC P.O. Box 1001 Scott Depot, West Virginia

WELLS PREPARTION PLANT	
PERMIT G10-D031D POTENTIAL TO EMIT CONTROLLED PM POINT SOURCE EMISSIONS CONTROLLED PM-10 POINT SOURCE EMISSIONS	201.11 TPY 94.72 TPY
ADDITIONS (CLEAN COAL CONVEYER) CONTROLLED PM POINT SOURCE EMISSIONS CONTROLLED PM-10 POINT SOURCE EMISSIONS	0 TPY 0 TPY
NEW POTENTIAL TO EMIT CONTROLLED PM POINT SOURCE EMISSIONS CONTROLLED PM-10 POINT SOURCE EMISSIONS	199.69 TPY 94.05 TPY
TRIGGERS FOR RULE 13 AND TITLE V PERMITS PM-10 POINT SOURCE EMISSIONS	100 TPY
RESULT THIS FACILITY CAN REMAIN UNDER THE GENERAL PERMIT AS A MINOR SOURCE.	

ATTACHMENT J CLASS I LEGAL ADVERTISEMENT

General Permit Modification Application

Wells Preparation Plant, Plant ID No. 005-00016
Wharton, West Virginia

Eastern Associated Coal, LLC P.O. Box 1001 Scott Depot, West Virginia

EXAMPLE LEGAL ADVERTISEMENT

Publication of a proper Class I legal advertisement is a requirement of the application process. In the event the applicant's legal advertisement fails to follow the requirements of 45CSR 13 (45-13-8) or the requirements of Chapter 59, Article 3, of the West Virginia Code, the application will be considered incomplete and no further review of the application will occur.

The applicant, utilizing the format for the Class I legal advertisement appearing below, shall cause such legal advertisement to appear a minimum of one (1) day in the newspaper most commonly read in the area where the facility exists or will be constructed. The notice must be published no earlier than five (5) working days of receipt by this office of your application. The original affidavit of publication must be received by this office no later than the last day of the public comment period.

The advertisement shall contain, at a minimum, the name of the applicant, the type and location of the source, the type and amount of air pollutants that will be discharged, the nature of the permit being sought, the proposed start-up date for the source and a contact telephone number for more information.

The location of the source should be as specific as possible starting with: 1.) the street address of the source; 2.) the nearest street or road; 3.) the nearest town or unincorporated area, 4.) the county, and 5.) latitude and longitude coordinates.

Types and amounts of pollutants discharged must include all regulated pollutants (PM, PM₁₀, VOC, SO₂, Xylene, etc.) and their potential to emit or the permit level being sought in units of tons per year (including fugitive emissions).

In the event the 30th day is a Saturday, Sunday, or legal holiday, the comment period will be extended until 5:00 p.m. on the following regularly scheduled business day.

AIR QUALITY PERMIT NOTICE Notice of Application

Notice is given that <u>Eastern Associated Coal</u>, <u>LLC</u> has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for a <u>Modification Permit</u> for a <u>Coal Preparation Plant</u> located on <u>State Route 85</u>, <u>Wharton</u>, in <u>Boone</u> County, West Virginia. The latitude and longitude coordinates are: <u>37.91861 and 81.68083, respectively</u>.

The applicant estimates the <u>(decreased, if modification application)</u> potential to discharge the following Regulated Air Pollutants will be:

Particulate Matter (PM) -1.42 tons/year
Particulate Matter under 10 microns (PM-10) -0.67 tons/year.

Startup of operation is <u>After-the-Fact</u>. 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 (Day) day of (Month), 2015.

By: Eastern Associated Coal, LLC
Gregory A. Ross
Attorney-in-Fact
PO Box 1001
Scott Depot, WV 25560

ATTACHMENT K ELECTRONIC SUBMITTAL DISKETTE

General Permit Modification Application

Wells Preparation Plant, Plant ID No. 005-00016
Wharton, West Virginia

Eastern Associated Coal, LLC P.O. Box 1001 Scott Depot, West Virginia

ATTACHMENT L

GENERAL PERMIT REGISTRATION APPLICATION FEE

General Permit Modification Application

Wells Preparation Plant, Plant ID No. 005-00016
Wharton, West Virginia

Eastern Associated Coal, LLC P.O. Box 1001 Scott Depot, West Virginia

GENERAL PERMIT APPLICATION FEE AND TIME TABLE

G10-C - Class II Coal Preparation and Handling

	Appli	cation Fee	NSPS Fee	Total Fee	Total Days*
Construction	\$	500.00	\$ 1,000.00	\$ 1,500.00	45
Modification	\$	500.00	\$ 1,000.00	\$ 1,500.00	45
Relocation	\$	500.00	\$ 1,000.00	\$ 1,500.00	45
Class I Admin. Update		NA	NA	NA	45
Class II Admin. Update	\$	300.00	\$ 1,000.00	\$ 1,300.00	45

G20-B - Class II Hot Mix Asphalt

	App	lication Fee	NSPS Fee	Total Fee	Total Days*
Construction	\$	500.00	\$ 1,000.00	\$ 1,500.00	45
Modification	\$	500.00	\$ 1,000.00	\$ 1,500.00	45
Relocation	\$	500.00	\$ 1,000.00	\$ 1,500.00	45
Class I Admin. Update		NA	NA	NA	45
Class II Admin, Update	\$	300.00	\$ 1.000.00	\$ 1.300.00	45

G30-A - Class II Natural Gas Compressor

	App	lication Fee	NSPS Fee	Total Fee		Total Days*
Construction	\$	500.00	\$ 1,000.00	\$	1,500.00	45
Modification	\$	500.00	\$ 1,000.00	\$	1,500.00	45
Relocation	\$	500.00	\$ 1,000.00	\$	1,500.00	45
Class I Admin. Update		NA	NA		NA	45
Class II Admin. Update	\$	300.00	\$ 1,000.00	\$	1,300.00	45

G-33A - Class I Natral Gas Compressor > 25HP and < 500 HP

	Appl	lication Fee	NSPS Fee	Total Fee	Total Days*
Construction	\$	250.00	NA	\$ 250.00	45
Modification	\$	250.00	NA	\$ 250.00	45
Relocation	\$	250.00	NA	\$ 250.00	45
Class I Admin. Update		NA	NA	NA	45
Class II Admin. Update	\$	300.00	NA	\$ 300.00	45

G-35A - Class II Natural Gas Compressor Station W/ Glycol Dehydration Unit, Flares, and Other Specified Control Devices

	App	lication Fee	NSPS Fee	Total Fee	Total Days*
Construction	\$	500.00	\$ 1,000.00	\$ 1,500.00	45
Modification	\$	500.00	\$ 1,000.00	\$ 1,500.00	45
Relocation	\$	500.00	\$ 1,000.00	\$ 1,500.00	45
Class I Admin. Update		NA	NA	NA	45
Class II Admin. Update	\$	300.00	\$ 1,000.00	\$ 1,300.00	45

G40-B - Class II Nonmetallic Minerals Processing

	App	lication Fee	NSPS Fee	Total Fee	Total Days*
Construction	\$	500.00	\$ 1,000.00	\$ 1,500.00	45
Modification	\$	500.00	\$ 1,000.00	\$ 1,500.00	45
Relocation	\$	500.00	\$ 1,000.00	\$ 1,500.00	45
Class I Admin. Update		NA	NA	NA	45
Class II Admin. Update	\$	300.00	\$ 1,000.00	\$ 1,300.00	45

G50-B - Class II Concrete Batch

	App	lication Fee	NSPS Fee	Total Fee	Total Days*
Construction	\$	500.00	\$ 1,000.00	\$ 1,500.00	45
Modification	\$	500.00	\$ 1,000.00	\$ 1,500.00	45
Relocation	\$	500.00	\$ 1,000.00	\$ 1,500.00	45
Class I Admin. Update		NA	NA	NA	45
Class II Admin, Update	\$	300.00	\$ 1.000.00	\$ 1.300.00	45

G60-A - Class II Emergency Generator

• •	App	lication Fee	NSPS Fee			Total Fee	Total Days*	
Construction	\$	500.00	\$	1,000.00	\$	1,500.00	45	
Modification	\$	500.00	\$	1,000.00	\$	1,500.00	45	
Relocation	\$	500.00	\$	1,000.00	\$	1,500.00	45	
Class I Admin. Update		NA		NA		NA	45	
Class II Admin, Update	\$	300.00	\$	1.000.00	\$	1.300.00	45	

G65-A -Class I Emergency Generator

	App	lication Fee	NSPS Fee		Total Fee	Total Days*	
Construction	\$	250.00	NA	\$	250.00	45	
Modification	\$	250.00	NA	\$	250.00	45	
Relocation	\$	250.00	NA	\$	250.00	45	
Class I Admin. Update		NA	NA		NA	45	
Class II Admin. Update	\$	300.00	NA	\$	300.00	45	

G70-A - Class II Natural Gas Production Pad

	Ap	plication Fee	NSPS Fee	NESHAP Fee	Total Fee	Total Days*
Construction	\$	500.00	\$ 1,000.00	\$ 2,500.00	\$ 4,000.00	45
Modification	\$	500.00	\$ 1,000.00	\$ 2,500.00	\$ 4,000.00	45
Class I Admin. Update		NA	NA	NA	NA	45
Class II Admin. Update	\$	300.00	\$ 1,000.00	\$ 2,500.00	\$ 3,800.00	45

^{*} Maximum days after receipt of complete application.

THE FACE OF THIS DOCUMENT CHANGES COLOR GRADUALLY AND EVENLY FROM D	DARK TO LIGHT AND HAS MICROPRINTING
EASTERN ASSOCIATED COAL, LLC	0535895
	PNC Bank N.A. 001
	Jeanette, PA 60 - 162 / 433
Pay ONE THOUSAND FIVE HUNDRED DOLLARS AND NO CENTS****	
Date	Amount
0.02/11/15	\$****1,500,00*
[848 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
	VOID 90 days after date of check
	Dunbelle
To The WV DEPT OF ENVIRONMENTAL	
Order PROTECTION	Authorized Signature
Of DIVISION OF AIR QUALITY	
601 57TH STREET EAST ©HARLESTON, WV 25304	Authorized Signature
CHARLESTON, VV 23304	Authorized oldtiatnie
"0535895" CO433016271 10288607	나내면 경화 첫 동화는 경화 경향을 받아야다
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ATTACHMENT N MATERIAL SAFETY DATA SHEETS (MSDS)

General Permit Modification Application

Wells Preparation Plant, Plant ID No. 005-00016
Wharton, West Virginia

Eastern Associated Coal, LLC P.O. Box 1001 Scott Depot, West Virginia

March 2015



PUT OUR ENERGY TO WORK FOR YOU.

BITUMINOUS COAL

Content Last Revised 1/94; 10/12/00; 07/26/02; 06/05 4 pages.

Two International Drive, Suite 200, Portsmouth, NH 03801
Tel (603) 431-1000 FAX (603) 430-7290

An Axel Johnson, Inc. Company

SECTION 1 - MATERIAL IDENTIFICATION 24 HOUR EMERGENCY INFORMATION PRODUCT / 603-431-1000 Sprague: **CHEMICAL NAME: BITUMINOUS COAL** Chemtrec: 800-424-9300 HMIS / NFPA - FIRE WASHED COAL, CLEAN COAL, SOFT PRODUCT / **HAZARD RATING** COAL **CHEMICAL SYNONYMS:** 0 4=EXTREME REACTIVITY CHEMICAL FAMILY / ALIPHATIC AND AROMATIC 3=SERIOUS HYDROCARBONS / VARIABLE FORMULA: 2=MODERATE OTHER 1=SLIGHT **MATERIAL USE OR** 0=MINIMAL **OCCURRENCE:** HEALTH

SECTION 2 – INGREDIENTS & RECOMMENDED OCCUPATIONAL EXPOSURE LIMITS							
COMPOSITION	% WEIGHT AS RECEIVED	OSHA PEL	ACGIH TLV				
MOISTURE	(Typical) 1.0 – 10.0	None established.	None established.				
ASH	4.0-20.0	15 mg/M³ as nuisance dust less than 1% quartz	10 mg/M³ as nuisance dust less than 1% quartz				
TOTAL SULFUR	0.5-2.2	5.0 ppm as SO ₂	2.00 ppm as SO ₂				
FIXED CARBON	50.0-72.0	None established	None established				
VOLATILE MATTER* INCLUDING ELEMENTAL AND COMPOUNDS OF:	17.0-37.0						
HYDROGEN	4.8-5.3	None established	None established				
NITROGEN	1.2-1.6	None established	None established				
CHLORINE	.0819	1.0 ppm	1.0 ppm				
COAL DUST		2.4 mg/ M³ respirable fraction,	2 mg/M³ respirable fraction,				
		< 5% SiO ₂	< 5% SiO ₂				
		10 mg/ M³ > 5% SiO₂	<u>10 mg/ M³</u> > 5% SiO₂				
		% SiO ₂₊₂	% SiO ₂₊₂				

SECTION 3 - PHYSICAL DATA					
IGNITION TEMPERATURE:	260°-365°F	% VOLATILITY BY VOLUME:	Negligible		
MELTING POINT:	750° F	VAPOR DENSITY (AIR = 1):	N/A		
AVERAGE SPECIFIC GRAVITY (H2O = 1):	1.43	SOLUBILITY IN WATER:	Non-soluble		
HETEROGENOUS - CARBONACEOUS					

APPEARANCE & ODOR: Irregular, rectangular-shaped chunks or particles, dense, grayish-black to black color with slight, minimal dank odor.



BITUMINOUS COAL

Content Last Revised 1/94: 10/12/00: 07/26/02; 06/05 4 pages

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: When exposed to flame of temperatures in excess of 260° F.

EXTINGUISHING MEDIUM: Foam, carbon dioxide, dry chemical, halon, and water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Use washdown and spread out method.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Susceptible to spontaneous combustion. Highly combustible and/or explosive when in dust or powder form.

SECTION 5 - HEALTH DATA

TOXICOLOGICAL TEST DATA: Coal may liberate various polycyclic aromatic hydrocarbons (PAH's) upon thermal decomposition. There is no clear evidence that coal is carcinogenic to man or experimental animals because of their polycyclic aromatic hydrocarbon content. However, there is evidence that these PAH's may play an active role in the generation of lung cancer seen in cigarette smokers or tar-roofing workers.

Coal may release small quantities of methane gas over a period of time. Progression of tuberculosis is greatly increased in pneumoconiosis but susceptibility is apparently not increased.

ACUTE HEALTH EFFECTS	CHRONIC HEALTH EFFECTS
The principal health hazard associated with coal occurs during its mining and transport. Coal workers' pneumoconiosis (CWP) can occur in miners after as little as 15 years of excessive inhalation of respirable coalmine dust. Respirable quartz particles and free silica may be co-implicated. Coal dust is deposited in the lungs where its site of action is the lung parenchyma, lymph nodes and hila. The severity of the disease is directly related to the amount of coal dust in the lungs. In the simple stages, the disease is detectable by x-ray as round, irregular "macules" of 1-5 mm. This stage typically does not change lung function or shorten life.	The chronic stage of CWP, however, involves massive pulmonary fibrosis that does impair pulmonary function and shorten life. Chronic Bronchitis (lung inflammation, coughing attacks, difficult breathing, etc.) and emphysema can result from excessive coal dust inhalation. Rheumatoid arthritis can be exacerbated by pneumonias leading to rapidly developing lung damage (Caplan's Syndrome).
May cause irritation.	No data available
May cause irritation.	No data available.
Irritation of the eye.	No data available
	The principal health hazard associated with coal occurs during its mining and transport. Coal workers' pneumoconiosis (CWP) can occur in miners after as little as 15 years of excessive inhalation of respirable coalmine dust. Respirable quartz particles and free silica may be co-implicated. Coal dust is deposited in the lungs where its site of action is the lung parenchyma, lymph nodes and hila. The severity of the disease is directly related to the amount of coal dust in the lungs. In the simple stages, the disease is detectable by x-ray as round, irregular "macules" of 1-5 mm. This stage typically does not change lung function or shorten life. May cause irritation.

FIRST AID



PROCEDURES

First aid procedures generally don't apply to this product. Maintain exposure to coal dust according to applicable regulatory standards.



BITUMINOUS COAL

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	SECTION 6 - REACTIVITY DATA				
STABILITY:	Stable if properly stored to inhibit oxidation.				
HAZARDOUS POLYMERIZATION:	Hazardous polymerization has not been known to occur under normal temperatures and pressures. However, coal dust may react slowly with oxygen at room temperature. Heat accelerates the process, which could lead to spontaneous ignition in piles of coal dust.				
CONDITIONS TO AVOID:	 Allowing coal to stand in water. Storing coal on loose or porous ground. Piling coal around upright steel or wooden posts, crane supports, underground drains, steam or hot water lines or areas where there is refuse such as wood, straw, growing vegetation or other organic material. Storage in closed hampers, bins, receptacles, etc. without positive ventilation. 				
INCOMPATIBLES:					
TYPICAL DECOMPOSITION PRODUCTS:	May liberate hydrogen, methane, carbon monoxide, oxides of sulfur and hydrogen, coal tar pitch volatiles upon thermal decomposition.				

SECTION 7 - SPECIAL PROTECTION					
RESPIRATORY PROTECTION:		Use with adequate ventilation.			
VENTILATION	LOCAL EXHAUST:	MSHA/NIOSH approved dust respirator. Appropriate respirator depends upon type and magnitude of exposure.			
	MECHANICAL	Recommended for use in enclosed or semi-enclosed work			
	(General):	areas.			
EYE PROTECTION:		Splash goggles or shields with safety glasses			
PROTECTIVE GLOVE	S:	Neoprene, PVC			
OTHER PROTECTIVE CLOTHING OR EQUIPMENT:		Employee must wear appropriate impervious clothing and equipment to prevent repeated or prolonged skin contact with this substance.			

SECTION 8 - SPECIAL PRECAUTIONS				
PRECAUTIONS FOR SAFE HANDLING & Do not permit accumulation of dust or spillage. See also conditions to avoid, above.				
SPILL AND LEAK PROCEDURES:	Cleanup by excavation, vacuum collection or washdown.			
WASTE DISPOSAL METHOD:	 Incinerate in combustion device or system. Dispose in approved, regulated landfill. 			

SECTION 9 - DOT HAZARDOUS MATERIAL INFORMATION				
PROPER SHIPPING NAME:		REQUIRED PLACARDING: NONE		
BITUMINOUS COAL				
HAZARD CLASS:	PACKING GROUP	N.A/U.N. NUMBER: NONE		
Non-Hazardous	(P.G.): III			



BITUMINOUS COAL

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SECTION 10 - EPA SARA TITLE III INFORMATION						
SECTION 311/312	ACUTE: N/A	CHRONIC:	N/A			
HAZARD CLASSIFICATION: Non-	FIRE: N/A	PRESSURE: N/A	REACTIVE: N/A			
Hazardous						

SECTION 11 – REMARKS

This material contains fused polycyclic hydrocarbons. The OSHA interpretation of coal tar pitch volatiles (Section 1910, 1002) is as follows: "Coal tar pitch volatiles include the fused polycyclic hydrocarbons which volatize from the distillation residues of coal, petroleum, wood, and other organic matter." The OSHA PEL and ACGIH TLV for coal tar pitch volatiles is 0.2 mg/M³ (basis one soluble fraction).

SECTION 12 - ADDITIONAL REGULATORY DATA						
REPORTABLE COMPONENTS: FEDERAL EPA	%	SARA RQ	CERCLA RQ	RCRA NO.		
BITUMINOUS COAL	100					

NOTE: OSHA Regulations 29 CFR 1910.1200 (Hazard Communication) do not consider coal as a "hazardous material" and a Material Safety Data Sheet (MSDS) is not required. The information contained herein is based on data available at this time and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Since information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, no responsibility is assumed for the results of its use. The person receiving this information shall make his own determination of the suitability of the material for his particular purpose.

ATTACHMENT O EMISSIONS SUMMARY SHEETS

General Permit Modification Application

Wells Preparation Plant, Plant ID No. 005-00016
Wharton, West Virginia

Eastern Associated Coal, LLC P.O. Box 1001 Scott Depot, West Virginia

March 2015

EMISSIONS SUMMARY Name of applicant: Eastern Associated Coal LLC Name of plant: Wells Preparation Plant Particulate Matter or PM (for CES Fee Determination) Uncontrolled PM Controlled PM lb/hr TPY lb/hr TPY **FUGITIVE EMISSIONS** 1.10 4.82 1.10 4.82 Stockpile Emissions Unpaved Haulroad Emissions 0.00 1,426.76 0.00 356.69 Paved Haulroad Emissions 0.00 1,745.47 0.00 436.37 **Fugitive Emissions Total** 1.10 3,177.05 1.10 797.88 POINT SOURCE EMISSIONS Equipment Emissions 0.00 675.00 0.00 135.00 Transfer Point Emissions 78.72 198.94 25.88 64.69 **Point Source Emissions Total** 78.72 25.88 199.69 873.94 79.82 4,050.99 26.98 997.57 **Facility Emissions Total** Particulate Matter under 10 microns, or PM-10 (for CES Fee Determination) Uncontrolled PM-10 Controlled PM-10 TPY lb/hr TPY **FUGITIVE EMISSIONS** Stockpile Emissions 0.52 2.27 2.27 0.52 Unpaved Haulroad Emissions 0.00 105.28 421.12 0.00 Paved Haulroad Emissions 0.00 299.54 0.00 74.89 **Fugitive Emissions Total** 0.52 722.93 0.52 182.43 POINT SOURCE EMISSIONS Equipment Emissions 0.00 317.25 0.00 63.45 Transfer Point Emissions 37.23 94.09 12.24 30.60 **Point Source Emissions Total** 37.23 411.34 12.24 94.05

37.75

37.75

1,134.28

1,1<u>34</u>.28

276.48

276.48

12.76

12.76

Facility Emissions Total

Facility Emissions Total

	or each emission source and n the permit application.	Nam Nam		olicant: nt:	Eastern Associ	
SHING AND SC	REENING (including all primary and sec RUSHING	-		creens)		
Primary Crusher ID Number	Description		XIMUM oughput IPY	Control Device ID Number	Control Efficiency %	Permitted Maximum Throughput TPH TPY
CR1 CR2	PLANT FEED CRUSHER (ROTARY BREAKER) LOWER COOK MOUNTAIN CRUSHER		10,500,000 2,000,000	FE FE	80 80	10,500,000
	Y AND TERTIARY CRUSHING	ı	7			, , , , , , , , , , , , , , , , , , , ,
Secondary & Tertiary Crusher ID	Description		XIMUM roughput TPY	Control Device ID Number	Control Efficiency %	Permitted Maximum Throughpu TPH TPY
	NONE					
		+				
					<u> </u>	
c. SCREENING						
Primary Screen ID Number	Description		XIMUM roughput	Control Device	Control Efficiency	Permitted Maximum Throughput
Primary Screen ID Number	Description	Th	roughput TPY	Device ID Number	Efficiency %	Maximum Throughput
Screen		Th	oughput	Device	Efficiency	Maximum Throughput
Primary Screen ID Number	Description PLANT FEED SCREEN	Th	10,500,000	Device ID Number	Efficiency %	Maximum Throughput TPH TPY 10,500,000
Primary Screen ID Number	Description PLANT FEED SCREEN	Th	10,500,000	Device ID Number	Efficiency %	Maximum Throughput TPH TPY 10,500,000
Primary Screen ID Number	Description PLANT FEED SCREEN	Th	10,500,000	Device ID Number	Efficiency %	Maximum Throughput TPH TPY 10,500,000
Primary Screen ID Number	Description PLANT FEED SCREEN	Th	10,500,000	Device ID Number	Efficiency %	Maximum Throughpul TPH TPY
Primary Screen ID Number	Description PLANT FEED SCREEN	Th	10,500,000	Device ID Number	Efficiency %	Maximum Throughput TPH TPY 10,500,000

k = Particle Size Multiplier (dimensionless)
U = Mean Wind Speed (mph)

Point ID No. T3 T4 T5 T6 T7 T8	Include ID Numbers of all conveyors, crushers, screens, stockpiles, etc. involved Raw Coal - BC42 TO BC7	Moisture Content %	TPH	roughput TPY	Device ID Number	Efficiency %	Maximum TPH	TPY
T4 T5 T6 T7 T8	Raw Coal - BC42 TO BC7							
T4 T5 T6 T7 T8	Raw Coal - BC42 TO BC7							
T5 T6 T7 T8		5	2,500	10,500,000	PE	50		
T6 T7 T8	Raw Coal - BS2 Input (CC11/TD)	5	2,500	10,500,000	PW	80		
T7 T8	Raw Coal - BS2 to BC6	5	2,500	10,500,000	FE	80		
T8	Raw Coal - To BS3 or BC12	5	2,500	10,500,000	FE	80		
	Raw Coal - To BC5 or BC13 RAW COAL (BC8) TO RAW COAL SILO (BS5)	5	2,500	10,500,000	FE	80		
	Raw Coal - BC11 TO BS4	5	2,500	10,500,000	FE	80		
T9	Raw Coal - Silo overflow to OS4	5	2,000	210,000	MD	0		
T10	Raw Coal - Endloader to BS6	5		210,000	PW	80		
T11	Raw Coal - BS6 to BC14	5	2,000	210,000	PE	50		
T12	Raw Coal - BS5 to BC14	5		10,500,000	FE	80		-
T13	Raw Coal - BS4 to BC14	5		10,500,000	FE	80		
				10 500 000				
T14	Raw Coal - BS3 to BC14	5		10,500,000	FE	80		<u> </u>
T15	Raw Coal - BC14 to S1	5	2,000	10,500,000	FE	80		
T16	Raw Coal - CR1 Input	5	2,000	10,500,000	FE	80		
T17	Raw Coal - Fine raw coal to BC15	5	1,000	7,000,000	FE	80		
T18	Raw Coal - CR1 to BC16	5	1,400	10,500,000	FE	80		
T19	Raw Coal - BC16 or BC18	5	1,000	7,000,000	FE	80		
T20	Raw Coal - BC16 to BC17	5	1,400	10,500,000	FE	80		
T21	Raw Coal - BC18 to BC19 (fines)	5	1,550	6,000,000	FE	80		
T22	Clean Coal/Sized - BC19 to BC20	6	1,550	7,360,532	FE	80		
T23	Clean Coal/Sized - BS10 or BC21	6	1,550	7,360,532	FE	80		
T24	Clean Coal/Sized - BS11 or BC24	6	1,550	7,360,532	FE	80		
T25	Clean Coal/Sized - BC25 or OS1	6	850	6,000,000	PE	50	t —	<u> </u>
T26	Clean Coal/Sized - BC25 to OS2	6	850	6,000,000	PE	50	 	
T27	Sized Coal - BS10 to BC26	5	000	6,000,000	FE	80	 	
				0,000,000			 	
T28	Sized Coal - BS11 to BC26 (Cook Mtn.)	5			FE	80		├
T29	Sized Coal - BC26 to BC26A	5	2,000	6,000,000	PE	50		Ь——
T30	Clean Coal/Sized - OS1 to BC27	6			FE	80	ļ	
T31	Clean Coal/Sized - OS2 to BC27	6	2,000	6,000,000	FE	80		<u> </u>
T32	Clean Coal/Sized - Endloader	6		0	MC	0		1
T33	Clean Coal/Sized - BC27 to BS12	6	4,000	6,000,000	FE	80		
T34	Clean Coal/Sized - BS12 to RR	6		6,000,000	TC	75		
T35	Refuse - CR1 to BC28	5	750	5,300,000	PE	50		
T36	Refuse - BC28 to BC30	5	750	5,300,000	PE	50		
T37	Refuse - BC29 to BC30	5			FE	80		
T38	Refuse - BS13 or BC31	5	750	5,300,000	FE	80		-
T39	Refuse - BS13 to truck loadout	5	730	5,300,000	PE	50		
			750					-
T40	Refuse - BC31 to BC32	5	750	5,300,000	FE	80		<u> </u>
T41	Refuse - BC33 or BS14	5	750	5,300,000	FE	80		
T42	Refuse - BS14 to truck loadout	5		5,300,000	PE	50		
T43	Refuse - BC34 or BS15	5	750	5,300,000	FE	80		
T44	Refuse - BS15 to truck loadout	5		5,300,000	PE	50		
T45	Refuse - BC34 to OS3	5	750	5,300,000	MC	0		
T46	Refuse - Endloader to truck loadout	5		210,000	MC	0		
T47	Raw/Clean Coal -Truck to OS5	6		10,500,000	MC	0		
T48	Raw/Clean Coal - OS5 truck loadout	6		10,500,000	MC	0		
T49	Raw/Clean Coal -Truck to OS6	6		315,000	MC	0		
T50	Raw/Clean Coal - OS6 truck loadout	6		315,000	MC	0		
T55	Raw Coal - BS8/BS9 Input	5		2,000,000	PW	80		
T56	Raw Coal - Truck to OS8	5		315,000	MC	0		-
			H			80	1	
T57	Raw Coal - CR2 Input	5	1.500	2,000,000	FE		1	
T58	Raw Coal - BC23	5	1,500	2,000,000	FE	80	 	
T59	Raw Coal - BC23 Input	5	1,500	2,000,000	FE	80	1	Ь—
T60	Raw Coal - BS10/BS11 Input or BC36	5	1,500	2,000,000	FE	80		
T66	BC37 TO BC38	5	3,500	10,500,000	PE	50	L	<u> </u>
T67	BC38 TO OS5	5	3,500	10,500,000	PE	50		
T68	OS5 TO BC39	5		10,500,000	FE	80		
T69	BC39 TO BC40	5	2,000	10,500,000	FE	80		L
T70	BC40 TO BC41	5	2,000	10,500,000	FE	80		
T71	BC41 TO BC42	5	2,000	10,500,000	FE	80		
T72	BC42 to BC7	5	2,000	10,500,000	FE	80		
T73	BC43 to BC38 (from Rivers Edge)	5	2,250	10,050,000	PE	50		
T1P	ENDLOADER TO HOPPER (H-1)	5	500	500,000	PE	50		
T2P	HOPPER (H-1) TO CONVEYOR (BC-1P)	5	500	375,000	FE/WS	90	t —	<u> </u>
	CONVEYOR (BC-1P) TO STOCKPILE OS-2			375,000			 	
T3P		5	500		MC	90	1	
T4P	HOPPER (H-1) TO CONVEYOR (BC-2P)	5	500	125,000	FE/WS		 	
T5P	CONVEYOR (BC-2P) TO STOCKPILE OS-1	5	500	125,000	MC	0	 	
T3A	CONVEYOR (BC4) TO CONVEYOR (BC8A)	5	2,500	10,500,000	PE	50		├
T8A	CONVEYOR (BC8A) TO RAW COAL SILO BIN (BS4)	5	2,500	10,500,000	FE	80		
T29A	BC26A TO BC27	5	2,000	6,000,000	PE	50	<u> </u>	<u> </u>
T20A	BC17 TO THE WET WASH PREPARATION PLANT	5	1,400	10,500,000	PE	50		
T20B	REFUSE FROM THE PREPARATION PLANT TO BC30	5		5,300,000	PE	50		
	REFUSE FROM THE PREPARATION PLANT TO BC30	5			PE	50		
	CLEAN COAL FROM PREPARATION PLANT TO BC19	5		6,000,000	PE	50		
T20E	CLEAN COAL FROM PREPARATION PLANT TO BC19	5			PE	50		
	CLEAN COAL FROM PREPARATION PLANT TO BC19	5			PE	50		
	CLEAN COAL FROM PREPARATION PLANT TO BC19 CLEAN COAL FROM PREPARATION PLANT TO BC19	5			PE	50	 	
							1	
	CLEAN COAL FROM PREPARATION PLANT TO BC19 CLEAN COAL FROM PREPARATION PLANT TO BC19	5 5			PE PE	50 50		├

3. WIND EROSION OF STOCKPILES (including all stockpiles of raw coal, clean coal, coal refuse, etc.)

p =	number of days per year with precipitation >0.01 inch	157
f =	percentage of time that the unobstructed wind speed	20
	exceeds 12 mph at the mean pile height	

Source	Stockpile	Silt	Stockpile	Control	Control
ID No.	Description	Content of	base area	Device	Efficiency
		Material %	Max. sqft	ID Number	%
OS-1	Clean Coal	3	53,000	MC	0
OS-2	Clean Coal	3	53,000	MC	0
OS-3	Refuse	1	10,000	MC	0
OS-4	Raw Coal	3	12,000	MC	0
OS-5	Raw Coal (110,000 ft2)	3	110,000	MC	0
OS-6	Raw/Clean (54,000 ft2)	3	54,000	MC	0
OS-8	Raw Coal	3	1,370	MC	0

4. UNPAVED HAULROADS (including all equipment traffic involved in process, haul trucks, endloaders, etc.)

s =	silt content of road surface material (%)	5.1
p =	number of days per year with precipitation >0.01 inch	157

Item Number	Description	Mean Vehicle Weight(tons)	Miles per Trip	Trips Per Hour	MAXIMUM Trips Per Year	Control Device ID Number	Control Efficiency %
1	Refuse Haulroad - HR2 (UKES)	107.5	1		124,706	RWMW	75
2	Black Stallion Stockpile Haulroad - HR3	52.5	1		0	RWMW	75
3	Upper Stockpile Haulroad - HR4	52.5	1		0	RWMW	75
4	Dozer/Endloader Traffic	150	1		6,936	RWMW	75
5	Raw Coal Haulroad - HR5 Upper Cook Mtn.	52.5	6.82		0	RWMW	75
6	Raw Coal Haulroad - HR6 Lower Cook Mtn.	52.5	7.58		18,077	RWMW	75
7							
8							

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*Assumes endloaders & dozers travel a maximum of 1 mile for every hour the facility is operated.

5. INDUSTRIAL PAVED HAULROADS (including all equipment traffic involved in process, haul trucks, endloaders, etc.)

sL =	road surface silt loading, (g/m^2)	70
P =	number of days per year with precipitation >0.01 inch	157

Item Number	Description	Mean Vehicle Weight(tons)	Miles per Trip	Trips Per Hour	ACTUAL Trips Per Year	Control Device ID Number	Control Efficiency %
1	Foreign Coal Haulroad - HR1	52.5	0.4		161,538	RWMW	75
2	Black Stallion Stockpile Haulroad - HR3	52.5	0.8		0	RWMW	75
3	Upper Stockpile Haulroad - HR4	52.5	0.8		0	RWMW	75
4							
5							
6							
7							
8							

1. Emissions From CRUSHING AND SCREENING

Page 1

1a. Primary Crushing

Primary		Р	1		PM-10			
Crusher	Uncor	Uncontrolled		Controlled		Uncontrolled		ntrolled
ID Number	lb/hr	TPY	lb/hr	lb/hr TPY		TPY	lb/hr	TPY
CR1	0.00	105.00	0.00	21.00	0.00	49.35	0.00	9.87
CR2	0.00	20.00	0.00	4.00	0.00	9.40	0.00	1.88
TOTAL	0.00	125.00	0.00	25.00	0.00	58.75	0.00	11.75

1b. Secondary and Tertiary Crushing

Secondary		Р	М			Р	M-10			
& Tertiary	Uncontrolled		Cont	rolled	Und	Uncontrolled		trolled		
Crusher ID	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY		
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

1c. Screening

		Р	М			Р	M-10		
Screen	Uncontrolled		Cont	Controlled		Uncontrolled		Controlled	
ID Number	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	
S1	0.00	525.00	0.00	105.00	0.00	246.75	0.00	49.35	
PS-1	0.00	25.00	0.00	5.00	0.00	11.75	0.00	2.35	
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
					•				
TOTAL	0.00	550.00	0.00	110.00	0.00	258.50	0.00	51.70	

Crushing		Р	М		PM-10				
and	Uncontrolled Ib/hr TPY		Controlled		Uncontrolled		Controlled		
Screening			lb/hr	TPY	lb/hr TPY		lb/hr	TPY	
TOTAL	0.00	675.00	0.00	135.00	0.00	317.25	0.00	63.45	

EMISSION FACTORS

source: Air Pollution Engineering Manual and References (lb/ton of material throughput)

PM	lb/ton
Primary Crushing	0.02
Tertiary Crushing	0.06
Non-Vibrating Screening*	0.0010
Vibrating Screening	0.10

PM-10	lb/ton
Primary Crushing	0.0094
Tertiary Crushing	0.028
Non-Vibrating Screening	0.0005
Vibrating Screening	0.047

^{*}Per DAQ guidance, the emission factor that is applied towards non-vibrating screens is the same as the transfer point emission factor.

2. Emissions From TRANSFER POINTS

Transfer		PM	1			PM-10		
Point	Uncon	trolled	Contro	olled	Uncont	rolled	Contro	olled
ID No.	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
T0	0.54	5.04	4.07	0.07	4.00	0.50	2.22	4.00
T3	2.54	5.34	1.27	2.67	1.20	2.52	0.60	1.26
T4	2.54	5.34	0.51	1.07	1.20	2.52	0.24	0.50
T5	2.54	5.34	0.51	1.07	1.20	2.52	0.24	0.50
T6	2.54	5.34	0.51	1.07	1.20	2.52	0.24	0.50
T7 T8	2.54 2.54	5.34 5.34	0.51 0.51	1.07 1.07	1.20 1.20	2.52 2.52	0.24 0.24	0.50 0.50
T9	2.03		2.03	0.11	0.96		0.24	
T10	0.00	0.11 0.11	0.00	0.11	0.96	0.05 0.05	0.96	0.05 0.01
T11	2.03	0.11	1.02	0.02	0.00	0.05	0.00	0.01
T12	0.00	5.34	0.00	1.07	0.90	2.52	0.48	0.03
T13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T14	0.00	5.34	0.00	1.07	0.00	2.52	0.00	0.50
T15	2.03	5.34	0.41	1.07	0.96	2.52	0.19	0.50
T16	2.03	5.34	0.41	1.07	0.96	2.52	0.19	0.50
T17	1.02	3.56	0.20	0.71	0.48	1.68	0.10	0.34
T18	1.42	5.34	0.28	1.07	0.40	2.52	0.13	0.50
T19	1.02	3.56	0.20	0.71	0.48	1.68	0.10	0.34
T20	1.42	5.34	0.28	1.07	0.67	2.52	0.13	0.50
T21	1.58	3.05	0.32	0.61	0.75	1.44	0.15	0.29
T22	1.22	2.90	0.24	0.58	0.58	1.37	0.12	0.27
T23	1.22	2.90	0.24	0.58	0.58	1.37	0.12	0.27
T24	1.22	2.90	0.24	0.58	0.58	1.37	0.12	0.27
T25	0.67	2.36	0.33	1.18	0.32	1.12	0.16	0.56
T26	0.67	2.36	0.33	1.18	0.32	1.12	0.16	0.56
T27	0.00	3.05	0.00	0.61	0.00	1.44	0.00	0.29
T28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T29	2.03	3.05	1.02	1.53	0.96	1.44	0.48	0.72
T30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T31	1.58	2.36	0.32	0.47	0.75	1.12	0.15	0.22
T32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T33	3.15	2.36	0.63	0.47	1.49	1.12	0.30	0.22
T34	0.00	2.36	0.00	0.59	0.00	1.12	0.00	0.28
T35	0.76	2.69	0.38	1.35	0.36	1.27	0.18	0.64
T36	0.76	2.69	0.38	1.35	0.36	1.27	0.18	0.64
T37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T38	0.76	2.69	0.15	0.54	0.36	1.27	0.07	0.25
T39	0.00	2.69	0.00	1.35	0.00	1.27	0.00	0.64
T40 T41	0.76 0.76	2.69 2.69	0.15 0.15	0.54 0.54	0.36	1.27	0.07 0.07	0.25 0.25
T41					0.36	1.27		
T43	0.00 0.76	2.69 2.69	0.00 0.15	1.35 0.54	0.00	1.27 1.27	0.00	0.64 0.25
T44	0.76	2.69	0.00	1.35	0.00	1.27	0.07	0.25
T45	0.00	2.69	0.00	2.69	0.00	1.27	0.00	1.27
T45	0.76	0.11	0.76	0.11	0.00	0.05	0.00	0.05
T47	0.00	4.14	0.00	4.14	0.00	1.96	0.00	1.96
T48	0.00	4.14	0.00	4.14	0.00	1.96	0.00	1.96
T49	0.00	0.12	0.00	0.12	0.00	0.06	0.00	0.06
T50	0.00	0.12	0.00	0.12	0.00	0.06	0.00	0.06
T55	0.00	1.02	0.00	0.20	0.00	0.48	0.00	0.10
T56	0.00	0.16	0.00	0.16	0.00	0.08	0.00	0.08
T57	0.00	1.02	0.00	0.20	0.00	0.48	0.00	0.10

2. Emissions From TRANSFER POINTS (continued)

Transfer		PIV	1		PM-10			
Point	Uncon	trolled	Contro	olled	Uncontrolled		Controlled	
ID No.	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
T58	1.53	1.02	0.31	0.20	0.72	0.48	0.14	0.10
T59	1.53	1.02	0.31	0.20	0.72	0.48	0.14	0.10
T60	1.53	1.02	0.31	0.20	0.72	0.48	0.14	0.10
T66	3.56	5.34	1.78	2.67	1.68	2.52	0.84	1.26
T67	3.56	5.34	1.78	2.67	1.68	2.52	0.84	1.26
T68	0.00	5.34	0.00	1.07	0.00	2.52	0.00	0.50
T69	2.03	5.34	0.41	1.07	0.96	2.52	0.19	0.50
T70	2.03	5.34	0.41	1.07	0.96	2.52	0.19	0.50
T71	2.03	5.34	0.41	1.07	0.96	2.52	0.19	0.50
T72	2.03	5.34	0.41	1.07	0.96	2.52	0.19	0.50
T73	2.29	5.11	1.14	2.55	1.08	2.42	0.54	1.21
T1P	0.51	0.25	0.25	0.13	0.24	0.12	0.12	0.06
T2P	0.51	0.19	0.05	0.02	0.24	0.09	0.02	0.01
T3P	0.51	0.19	0.51	0.19	0.24	0.09	0.24	0.09
T4P	0.51	0.06	0.05	0.01	0.24	0.03	0.02	0.00
T5P	0.51	0.06	0.51	0.06	0.24	0.03	0.24	0.03
T3A	2.54	5.34	1.27	2.67	1.20	2.52	0.60	1.26
T8A	2.54	5.34	0.51	1.07	1.20	2.52	0.24	0.50
T29A	2.03	3.05	1.02	1.53	0.96	1.44	0.48	0.72
T20A	1.42	5.34	0.71	2.67	0.67	2.52	0.34	1.26
T20B	0.00	2.69	0.00	1.35	0.00	1.27	0.00	0.64
T20C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T20D	0.00	3.05	0.00	1.53	0.00	1.44	0.00	0.72
T20E	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T20F	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T20G	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T20H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T20I	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	78.72	198.94	25.88	64.69	37.23	94.09	12.24	30.60

Source:

AP-42 Fifth Edition

13.2.4 Aggregate Handling and Storage Piles

Emissions From Batch Drop

 $E = k^*(0.0032) * [(U/5)^1.3]/[(M/2)^1.4] = pounds/ton$

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 = 0.74For PM-10 (< or equal to 10um) k = 0.35

For PM $E(M) = 0.003667 *[1/((M/2)^1.4)] = pounds/ton$

For PM-10 $E(M) = 0.001735 *[1/((M/2)^1.4)] = pounds/ton$

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

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

3. Emissions From WIND EROSION OF STOCKPILES

Stockpile		PI	И		PM-10			
ID No.	Uncon	trolled	Contr	olled	Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
OS-1	0.20	0.89	0.20	0.89	0.10	0.42	0.10	0.42
OS-2	0.20	0.89	0.20	0.89	0.10	0.42	0.10	0.42
OS-3	0.01	0.06	0.01	0.06	0.01	0.03	0.01	0.03
OS-4	0.05	0.20	0.05	0.20	0.02	0.09	0.02	0.09
OS-5	0.42	1.85	0.42	1.85	0.20	0.87	0.20	0.87
OS-6	0.21	0.91	0.21	0.91	0.10	0.43	0.10	0.43
OS-8	0.01	0.02	0.01	0.02	0.00	0.01	0.00	0.01
TOTALS	1.10	4.82	1.10	4.82	0.52	2.27	0.52	2.27

T16

Air Pollution Engineering Manual

Storage Pile Wind Erosion (Active Storage)

E = 1.7*[s/1.5]*[(365-p)/235]*[f/15] = (lb/day/acre)

Where:

s =	silt content of material
p =	number of days with >0.01 inch of precipitation per year
f =	percentage of time that the unobstructed wind speed
	exceeds 12 mph at the mean pile height

For PM E(s) = 1.337494 * s = lb/day/acre

For PM-10* E(s)= 0.628622 * s = Ib/day/acre

For lb/hr [lb/day/acre]*[day/24hr]*[base area of pile (acres)] = lb/hr

For Ton/yr [lb/day/acre]*[365day/yr]*[Ton/2000lb]*[base area of pile (acres)] = Ton/yr

*Assumes PM-10 is 47% of the total PM.

4. Emissions From UNPAVED HAULROADS

Item	PM				PM-10			
No.	Uncon	trolled	Contro	olled	Uncontrolled		Contr	olled
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
1	0.00	767.05	0.00	191.76	0.00	226.40	0.00	56.60
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	49.56	0.00	12.39	0.00	14.63	0.00	3.66
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	610.14	0.00	152.54	0.00	180.09	0.00	45.02
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTALS	0.00	1426.76	0.00	356.69	0.00	421.12	0.00	105.28

Source:

AP-42 12/03 Edition

13.2.2 Unpaved Roads - updated 12/2003

Emission Estimate For Unpaved Haulroads at Industrial Sites (equation 1a)

 $E = [(k^*(s/12)^a * (W/3)^b) * [(365-p)/365)] = lb / Vehicle Mile Traveled (VMT)$

Where:

		PM	PM-10
k =	particle size multiplier	4.90	1.50
a =	empirical constant	0.7	0.9
b =	empirical constant	0.45	0.45
p =	number of days with at least 0.01 inches of precipitation	157	
s =	silt content of road surface material (%)	10	*
W =	Mean vehicle weight (tons)		_

^{*}based on stone quarrying and processing plant road because no factors are listed for coal preparation plants.

5. Emissions From INDUSTRIAL PAVED HAULROADS

Item	PM					PM-10			
No.	Uncont	rolled	Controlled		Uncontrolled		Controlled		
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	
1	0.00	1745.47	0.00	436.37	0.00	299.54	0.00	74.89	
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TOTALS	0.00	1745.47	0.00	436.37	0.00	299.54	0.00	74.89	

Source:

AP-42 12/03 Edition 13.2.1 PAVED ROADS

Emission Estimate For Paved Haulroads

 $E = k * [sL/2]^0.65 * [W/3]^1.5 * [1 - (P/(4*N))] = lb / Vehicle Mile Traveled (VMT)$

Where:

		PM	PM-10
k =	particle size multiplier	0.082	0.016
sL=	road surface silt loading, (g/m^2)	70	*
P =	number of days per year with precipitation >0.01 inch	157	
N =	number of days in averaging period	365	
W =	average vehicle weight, (ton)		=

^{*}based on sand and gravel processing because no factors are listed for coal preparation plants.