



Mid-Vol Coal Sales, Inc.
640 Clover Dew Dairy Road
Princeton, WV 24740

Don
G10-0062A
047-00109

No. 8 Loadout Loadout

Facility ID# 047-00109

G10D

General Permit Modification Application

**Department of Environmental Protection
Office of Air Quality**

March 2015





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. # _____
 PERMIT # _____ PERMIT WRITER: _____

CHECK WHICH TYPE OF GENERAL PERMIT REGISTRATION YOU ARE APPLYING FOR:

- G10-C** – Coal Preparation and Handling
- G20-B** – Hot Mix Asphalt
- G30-D** – Natural Gas Compressor Stations
- G33-A** – Class I Spark Ignition Internal Combustion Engine
- G35-A** – Natural Gas Compressor Stations (Flare/Glycol Dehydration Unit)

- G40-C** – Nonmetallic Minerals Processing
- G50-B** – Concrete Batch
- G60-C** – Class II Emergency Generator
- G65-C** – Class I Emergency Generator

SECTION I. GENERAL INFORMATION

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

Mid-Vol Coal Sales, Inc.

2. FEDERAL EMPLOYER ID NO. (FEIN):

55-0761501

3. APPLICANT'S MAILING ADDRESS:

640 Clover Dew Dairy Road
 Princeton, WV 24740

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

ArcelorMittal Coal Group USA, LLC

5. 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

7. TYPE OF PLANT OR FACILITY (STATIONARY SOURCE) TO BE CONSTRUCTED, MODIFIED, RELOCATED OR ADMINISTRATIVELY UPDATED (E.G., COAL PREPARATION PLANT, PRIMARY CRUSHER, ETC.):

Coal Loadout Facility

8. STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODE FOR THE FACILITY:

1221

9A. DAQ PLANT I.D. NO. (FOR AN EXISTING FACILITY): <u>0 4 7 - 0 0 1 0 9</u>	10A. LIST ALL CURRENT 45CSR13 AND 45CSR30 (TITLE V) PERMIT NUMBERS ASSOCIATED WITH THIS PROCESS (FOR EXISTING FACILITY ONLY): <u>G10-D</u>
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PRIMARY OPERATING SITE INFORMATION

11A. NAME OF PRIMARY OPERATING SITE: <u>No. 8 Loadout</u>	12A. MAILING ADDRESS OF PRIMARY OPERATING SITE: <u>640 Clover Dew Dairy Road</u> <u>Princeton, WV 24740</u>
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13A. DOES THE APPLICANT OWN, LEASE, HAVE AN OPTION TO BUY, OR OTHERWISE HAVE CONTROL OF THE PROPOSED SITE?
 YES NO
 ⇨ IF YES, PLEASE EXPLAIN: Site is leased from Pocahontas Land Company

⇨ IF NO, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.

14A. ⇨ FOR MODIFICATIONS or ADMINISTRATIVE UPDATES, AT AN EXISTING FACILITY, PLEASE PROVIDE DIRECTIONS TO THE PRESENT LOCATION OF THE FACILITY FROM THE NEAREST STATE ROAD;
 ⇨ FOR CONSTRUCTION OR RELOCATION PERMITS, PLEASE PROVIDE DIRECTIONS TO THE PROPOSED NEW SITE LOCATION FROM THE NEAREST STATE ROAD.

Take WV Rt. 103 S from Welch to Gary, Turn Right onto WV Rt. 13 in Gary. Travel for approx. 2.5 miles and turn left onto WV Rt. 13/3. Trave for 0.25 mile and job is on the Right.

INCLUDE A MAP AS ATTACHMENT F.

15A. NEAREST CITY OR TOWN: <u>Elbert</u>	16A. COUNTY: <u>McDowell</u>	
17A. UTM NORTHING (KM): <u>4,132.00</u>	18A. UTM EASTING (KM): <u>452.68</u>	19A. UTM ZONE: <u>17</u>

1ST ALTERNATE OPERATING SITE INFORMATION (G20-B, G40-C, G50-C only) NA

11B. NAME OF PRIMARY OPERATING SITE: _____ _____	12B. MAILING ADDRESS OF PRIMARY OPERATING SITE: _____ _____
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13B. DOES THE APPLICANT OWN, LEASE, HAVE AN OPTION TO BUY, OR OTHERWISE HAVE CONTROL OF THE *PROPOSED SITE*?
 YES NO
 ⇨ IF YES, PLEASE EXPLAIN: _____

 ⇨ IF NO, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.

14B. ⇨ FOR **MODIFICATIONS** or **ADMINISTRATIVE UPDATES**, AT AN EXISTING FACILITY, PLEASE PROVIDE DIRECTIONS TO THE *PRESENT LOCATION* OF THE FACILITY FROM THE NEAREST STATE ROAD;
 ⇨ FOR **CONSTRUCTION** OR **RELOCATION PERMITS**, PLEASE PROVIDE DIRECTIONS TO *THE PROPOSED NEW SITE LOCATION* FROM THE NEAREST STATE ROAD.

 INCLUDE A MAP AS ATTACHMENT F.

15B. NEAREST CITY OR TOWN:	16B. COUNTY:	
17B. UTM NORTHING (KM):	18B. UTM EASTING (KM):	19B. UTM ZONE:

2ND ALTERNATE OPERATING SITE INFORMATION (G20-B, G40-C, G50-C only) NA

11C. NAME OF PRIMARY OPERATING SITE: _____	12C. MAILING ADDRESS OF PRIMARY OPERATING SITE: _____
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13C. DOES THE APPLICANT OWN, LEASE, HAVE AN OPTION TO BUY, OR OTHERWISE HAVE CONTROL OF THE *PROPOSED SITE*?
 YES 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 *PRESENT LOCATION* OF THE FACILITY FROM THE NEAREST STATE ROAD;
 ⇨ FOR **CONSTRUCTION** OR **RELOCATION PERMITS**, PLEASE PROVIDE DIRECTIONS TO *THE PROPOSED NEW SITE LOCATION* FROM THE NEAREST STATE ROAD.

 INCLUDE A MAP AS ATTACHMENT F.

15C. NEAREST CITY OR TOWN:	16C. COUNTY:
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17C. UTM NORTHING (KM):	18C. UTM EASTING (KM):	19C. UTM ZONE:
20. PROVIDE THE DATE OF ANTICIPATED INSTALLATION OR CHANGE: ____/____/____ ⇒ IF THIS IS AN AFTER-THE-FACT PERMIT APPLICATION, PROVIDE THE DATE UPON WHICH THE PROPOSED CHANGE DID HAPPEN: <u>01 / 01 / 09</u>		21. DATE OF ANTICIPATED START- UP IF REGISTRATION IS GRANTED: <u>01 / 01 / 09</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>		

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
- ATTACHMENT L: GENERAL PERMIT REGISTRATION APPLICATION FEE
- ATTACHMENT M: SITING CRITERIA WAIVER

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) 926-0475.

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)

I certify that I am a President, Vice President, Secretary, Treasurer or in charge of a principal business function of the corporation

FOR A PARTNERSHIP

I certify that I am a General Partner

FOR A LIMITED LIABILITY COMPANY

I certify that I am a General Partner or General Manager

FOR AN ASSOCIATION

I certify that I am the President or a member of the Board of Directors

FOR A JOINT VENTURE

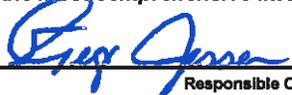
I certify that I am the President, General Partner or General Manager

FOR A SOLE PROPRIETORSHIP

I certify that I am the Owner and Proprietor

is an Authorized Representative and in that capacity shall represent the interest of the business (e.g., Corporation, Partnership, Limited Liability Company, Association Joint Venture or Sole Proprietorship) and may obligate and legally bind the business. If the business changes its Authorized Representative, a Responsible Official shall notify the Chief of the Office of Air Quality immediately, and/or,

I hereby certify that all information contained in this General Permit Registration Application and any supporting documents appended hereto is, to the best of my knowledge, true, accurate and complete, and that all reasonable efforts have been made to provide the most comprehensive information possible

Signature  March 30, 2015
(please use blue ink) Responsible Official Date

Name & Title Greg Jessee - President
(please print or type)

Signature _____
(please use blue ink) Authorized Representative (if applicable) Date

Applicant's Name Mid-Vol Coal Sales, Inc.

Phone & Fax (276) 988-7915 (276) 979-0053
Phone Fax

Email derrick.kegley@arcelormittal.com

Attachment A
Current Business Certificate

**WEST VIRGINIA
STATE TAX DEPARTMENT
BUSINESS REGISTRATION
CERTIFICATE**

ISSUED TO:
**MID-VOL COAL SALES INC
640 CLOVER DEW DAIRY RD
PRINCETON, WV 24740-6828**

BUSINESS REGISTRATION ACCOUNT NUMBER: **1045-3433**

This certificate is issued on: **09/10/2010**

*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, revoked or 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.

Attachment B
Process Description

Attachment B
Process Description

Coal is dumped by truck into truck bin (E3-1) and Stockpiles (OS-2, OS-3, and OS-4). The coal dumped into (E3-1) is transported thru (BC1) and into (OS-1). (OS-2, OS-3, and OS-4) are then loaded by front end loader into Loader Dump (OT-1). Loader Dump (OT-1) then travels down (BC2) and dumps into bin (E3-2) along with the coal loaded out of stockpile (OS-1). From bin (E3-2) coal travels down belt (BC3). Belt (BC3) then drops on belt (BC4). Belt (BC4) then dumps into bin (BS-1). The rail cars are then loaded out of bin (BS-1)

Attachment C

Description of Fugitive Emissions

Attachment C **Description of Fugitive Emissions**

Open Coal Stockpiles – All stockpiles are now controlled by the used of compaction by the equipment on site (a dozer and the endloaders) that thus far has provided sufficient control. A water truck traverses through the stockpile area locations during the normal watering of the haulroads which also helps to control fugitive coal dust from loading and unloading activities at the piles.

Haulroads – Fugitive coal dust on the haulroads are now controlled by the use of a water truck that has thus far provided sufficient control.

Other Structures – The other structures are partially or fully enclosed and have provides sufficient control thus far.

Attachment D
Process Flow Diagram

Attachment E
Plot Plan

Attachment F
Area Map

Attachment G
Affected Source Sheets

STORAGE ACTIVITY AFFECTED SOURCE SHEET

Source Identification Number ¹	E3-1	E3-2	OT-1	BS-1	OS-1	OS-2	OS-3
Type of Material Stored ²	RC						
Average Moisture Content (%) ³	5	5	5	5	5	5	5
Maximum Yearly Storage Throughput (tons) ⁴	500,000	500,000	500,000	500,000	500,000	500,000	500,000
Maximum Storage Capacity (tons) ⁵	60	60	60	60	15,000	15,000	15,000
Maximum Base Area (ft ²) ⁶	100	100	100	100	25,000	25,000	25,000
Maximum Pile Height (ft) ⁷	N/A	N/A	N/A	N/A	40	40	40
Method of Material Load-in ⁸	TD	SS / FE	FE	SS	TD	TD	TD
Load-in Control Device Identification Number ⁹	WS	PW	FE	FE	WS	WS	WS
Storage Control Device Identification Number ⁹	FE	FE	FE	FE	WS	WS	WS
Method of Material Load-out ⁸	SS	SS	UC	FC	FE	FE	FE
Load-out Control Device Identification Number ⁹	FE	FE	FE	TC	WS	WS	WS

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 (CC), raw coal (RC), refuse (R), sized coal (SC), other (O))
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	OT	Other
9. Enter the appropriate Control Device Identification Number for each storage activity. Refer to Table A - *Control Device Listing* and *Control Device Identification Number Instructions* in the *Reference Document* for Control Device ID prefixes and numbering.

STORAGE ACTIVITY AFFECTED SOURCE SHEET

Source Identification Number ¹	OS-4						
Type of Material Stored ²	RC						
Average Moisture Content (%) ³	5						
Maximum Yearly Storage Throughput (tons) ⁴	500,000						
Maximum Storage Capacity (tons) ⁵	15,000						
Maximum Base Area (ft ²) ⁶	25,000						
Maximum Pile Height (ft) ⁷	40						
Method of Material Load-in ⁸	TD						
Load-in Control Device Identification Number ⁹	WS						
Storage Control Device Identification Number ⁹	WS						
Method of Material Load-out ⁸	FE						
Load-out Control Device Identification Number ⁹	WS						

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 (CC), raw coal (RC), refuse (R), sized coal (SC), other (O))
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	OT Other
9. Enter the appropriate Control Device Identification Number for each storage activity. Refer to Table A - *Control Device Listing and Control Device Identification Number Instructions* in the *Reference Document* for Control Device ID prefixes and numbering.

Attachment I

Emissions Calculations

EMISSIONS SUMMARY

Name of applicant: Mid-Vol Coal Sales, Inc.
 Name of plant: No. 8 Loadout

Particulate Matter or PM (for 45CSR14 Major Source Determination)

Uncontrolled PM		Controlled PM	
lb/hr	TPY	lb/hr	TPY

FUGITIVE EMISSIONS				
<i>Stockpile Emissions</i>	0.38	1.68	0.10	0.42
<i>Unpaved Haulroad Emissions</i>	71.30	54.48	21.39	16.35
<i>Paved Haulroad Emissions</i>	0.00	0.00	0.00	0.00
Fugitive Emissions Total	71.68	56.16	21.48	16.77

POINT SOURCE EMISSIONS				
<i>Equipment Emissions</i>	0.00	0.00	0.00	0.00
<i>Transfer Point Emissions</i>	9.15	5.08	2.06	1.14
Point Source Emissions Total*	9.15	5.08	2.06	1.14

*Note: Point Source Total Controlled PM TPY emissions is used for 45CSR14 Major Source determination (see below)

Facility Emissions Total	80.83	61.25	23.54	17.91
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***Facility Potential to Emit (PTE) (Baseline Emissions) = 1.14**
 (Based on Point Source Total controlled PM TPY emissions from above) **ENTER ON LINE 26 OF APPLICATION**

Particulate Matter under 10 microns, or PM-10 (for 45CSR30 Major Source Determination)

Uncontrolled PM-10		Controlled PM-10	
lb/hr	TPY	lb/hr	TPY

FUGITIVE EMISSIONS				
<i>Stockpile Emissions</i>	0.18	0.79	0.05	0.20
<i>Unpaved Haulroad Emissions</i>	21.04	16.08	6.31	4.82
<i>Paved Haulroad Emissions</i>	0.00	0.00	0.00	0.00
Fugitive Emissions Total	21.22	16.87	6.36	5.02

POINT SOURCE EMISSIONS				
<i>Equipment Emissions</i>	0.00	0.00	0.00	0.00
<i>Transfer Point Emissions</i>	4.33	2.40	0.97	0.54
Point Source Emissions Total*	4.33	2.40	0.97	0.54

*Note: Point Source Total Controlled PM-10 TPY emissions is used for 45CSR30 Major Source determination

Facility Emissions Total	25.55	19.28	7.33	5.56
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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 exceeds 12 mph at the mean pile height	20

Source ID No.	Stockpile Description	Silt Content of Material %	Stockpile base area Max. sqft	Control Device ID Number	Control Efficiency %
OS-1	Raw Coal	5	15,000	WS	75
OS-2	Raw Coal	5	15,000	WS	75
OS-3	Raw Coal	5	15,000	WS	75
OS-4	Raw Coal	5	15,000	WS	75

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

s =	silt content of road surface material (%)	10
p =	number of days per year with precipitation >0.01 inch	157
M _{dry} =	surface material moisture content (%) - dry conditions	0.2

Item Number	Description	Number of wheels	Mean Vehicle Weight(tons)	Mean Vehicle Speed (mph)	Miles per Trip	Maximum Trips Per Hour	Maximum Trips Per Year	Control Device ID Number	Control Efficiency %
1	Truck Dump	18	45	10	0.1	10	12,500	WS	70
2	Front End Loader	4	120	10	0.05	50	80,000	WS	70
3									
4									
5									
6									
7									
8									

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

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

Item Number	Description	Mean Vehicle Weight (tons)	Miles per Trip	Maximum Trips Per Hour	Maximum Trips Per Year	Control Device ID Number	Control Efficiency %
1							
2							
3							
4							
5							
6							
7							
8							

1. Emissions From CRUSHING AND SCREENING (Continued)

EMISSION FACTORS

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

PM	
Primary Crushing	0.02
Tertiary Crushing	0.06
Screening	0.1

PM-10	
Primary Crushing	0.0094
Tertiary Crushing	0.0282
Screening	0.047

2. Emissions From TRANSFER POINTS (continued)

Transfer Point ID No.	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTALS	9.151	5.084	2.059	1.144	4.328	2.405	0.974	0.541

Source:

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

Emissions From Batch Drop

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

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= $\$I88 * (0.0032) * (((Inputs!\$I72)/5)^{1.3}) / (((Inputs!G78 + 0.00000001)/2)^{1.4}$
 =lb/ton

For PM-10 E= $\$J88 * (0.0032) * (((Inputs!\$I72)/5)^{1.3}) / (((Inputs!G78 + 0.00000001)/2)^{1.4}$
 =lb/ton

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

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

3. Emissions From WIND EROSION OF STOCKPILES

Stockpile ID No.	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
OS-1	0.096	0.420	0.024	0.105	0.045	0.198	0.011	0.049
OS-2	0.096	0.420	0.024	0.105	0.045	0.198	0.011	0.049
OS-3	0.096	0.420	0.024	0.105	0.045	0.198	0.011	0.049
OS-4	0.096	0.420	0.024	0.105	0.045	0.198	0.011	0.049
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTALS	0.384	1.681	0.096	0.420	0.180	0.790	0.045	0.198

Source:

Air Pollution Engineering Manual

Storage Pile Wind Erosion (Active Storage)

$$E = 1.7 \cdot [s/1.5] \cdot [(365-p)/235] \cdot [f/15] = (\text{lb/day/acre})$$

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

Emission Factors

For PM $E = (1.7) \cdot ((\text{Inputs!F147})/1.5) \cdot ((365 - \text{Inputs!I139})/235) \cdot ((\text{Inputs!I140})/15)$

For PM-10 $E = 0.47 \cdot (1.7) \cdot ((\text{Inputs!F147})/1.5) \cdot ((365 - \text{Inputs!I139})/235) \cdot ((\text{Inputs!I140})/15)$

For lb/hr $[\text{lb/day/acre}] \cdot [\text{day}/24\text{hr}] \cdot [\text{base area of pile (acres)}] = \text{lb/hr}$

For Ton/yr $[\text{lb/day/acre}] \cdot [365\text{day/yr}] \cdot [\text{Ton}/2000\text{lb}] \cdot [\text{base area of pile (acres)}] = \text{Ton/yr}$

4. Emissions From UNPAVED HAULROADS

Item No.	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
1	14.59	9.12	4.38	2.74	4.31	2.69	1.29	0.81
2	56.71	45.37	17.01	13.61	16.74	13.39	5.02	4.02
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	71.30	54.48	21.39	16.35	21.04	16.08	6.31	4.82

Source:

AP42, Fifth Edition, Revised 11/2006

13.2.2 Unpaved Roads

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

$$E = k \left(\frac{s}{12} \right)^a \left(\frac{W}{3} \right)^b = \text{lb/vmt}$$

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 per year with precipitation >0.01 inch	157	

Emission Factors

For PM $E = ((\$35) * (((Inputs!\$163)/12)^{(\$36)}) * (((Inputs!H171)/3)^{\$37})) * ((365 - P) * (\$35))$

For PM-10 $E = ((\$J35) * (((Inputs!\$163)/12)^{(\$J36)}) * (((Inputs!H171)/3)^{\$J37})) * ((365 - P) * (\$J35))$

For lb/hr $(\text{lb/vmt}) * (\text{miles per trip}) * (\text{Max trips per hour})$

For Ton/yr $(\text{lb/vmt}) * (\text{miles per trip}) * (\text{Max trips per year}) * (1/2000)$

5. Emissions From INDUSTRIAL PAVED HAULROADS

Item No.	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Source:

AP42, Fifth Edition, Revised 11/2006
13.2.1 PAVED ROADS

Emission Estimate For Paved Haulroads

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

Where:

		PM	PM-10
k =	particle size multiplier	0.082	0.016
sL =	road surface silt loading, (g/ft ²)	70	
P =	number of days per year with precipitation >0.01 inch	157	
N =	number of days in averaging period	365	
C =	factor for exhaust, brake wear and tire wear	0.0047	0.0047

Emission Factors

For PM E= (\$I\$34*(((I\$35)/2)^{0.65}*(((Inputs!G190)/3)^{1.5})-(I\$38))*(1-((Inputs!\$

For PM-10 E= (\$J\$34)*(((I\$35)/2)^{0.65}*(((Inputs!G190)/3)^{1.5})-(I\$38))*(1-((Inputs!\$

For lb/hr (lb/vmt)*(miles per trip)*(Max trips per hour)

For Ton/yr (lb/vmt)*(miles per trip)*(Max trips per year)*(1/2000)

Attachment J

Class I Legal Advertisement

Air Quality Permit Notice
Notice of Application

As Approved Original Description:

Notice is given that Mid-Vol Coal Sales, Inc. has applied to the West Virginia Department of Environmental Protection, Division of Air Quality for a New Permit for a Coal Preparation Plant located on Rt. 13/3, near Elbert, in McDowell County, West Virginia. The latitude and longitude coordinates are: Lat: 37.333350°, Long: -81.534295°

The applicant estimates the increased potential to discharge the following Regulated Air Pollutants will be: 17.91 tons per year of particulate matter (PM) of which 16.77 tons per year are fugitive emissions and 5.56 tons per year of PM₁₀ of which 5.02 tons per year are fugitive emissions.

Startup of the operation is planned to begin on or about the 15th of May, 2015. 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 1st day of April, 2015.

By: Mid-Vol Coal Sales, Inc.
Greg Jessee
President
640 Clover Dew Dairy Road
Princeton, WV 24740