

A: PRIMARY OPERATING SITE INFORMATION

<p>11A. Facility name of primary operating site: <u>Doss YARD #3</u></p>	<p>12A. Address of primary operating site: Mailing: _____ Physical: _____ <u>JANE LEW, WV 26378 -</u></p>	
<p>13A. Does the applicant own, lease, have an option to buy, or otherwise have control of the proposed site? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO ⇨ IF YES, please explain: <u>Site is owned + operated by Doss Enterprises</u></p> <p>⇨ IF NO, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.</p>		
<p>14A. ⇨ For Modifications or Administrative Updates at an existing facility, please provide directions to the 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.</p> <p><u>N/A</u></p>		
<p>15A. Nearest city or town: <u>JANE LEW</u></p>	<p>16A. County: <u>LEWIS</u></p>	<p>17A. UTM Coordinates: Northing (KM): _____ Easting (KM): _____ Zone: _____</p>
<p>18A. Briefly describe the proposed new operation or change (s) to the facility: <u>Crushing Rock on proposed site to assist in development of property</u></p>		<p>19A. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits): Latitude: <u>39.10370</u> Longitude: <u>-80.40563</u></p>

B: 1ST ALTERNATE OPERATING SITE INFORMATION (only available for G20, G40, & G50 General Permits)

<p>11B. Name of 1st alternate operating site: <u>N/A</u></p>	<p>12B. Address of 1st alternate operating site: Mailing: _____ Physical: _____</p>	
<p>13B. Does the applicant own, lease, have an option to buy, or otherwise have control of the proposed site? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO ⇨ IF YES, please explain: <u>Applicant owns Property</u></p> <p>⇨ IF NO, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.</p>		

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.**

N/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: 2ND ALTERNATE OPERATING 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: Mailing: _____ Physical: _____	
13C. Does the applicant own, lease, have an option to buy, or otherwise have control of the proposed site? <input type="checkbox"/> YES <input type="checkbox"/> NO		
⇨ IF YES, please explain: _____		
⇨ IF NO, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.		
14C. ⇨ For Modifications or Administrative Updates at an existing facility, please provide directions to the 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:	17C. UTM Coordinates: Northing (KM): _____ Easting (KM): _____ 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: <u>3, 1, 16</u> <input type="checkbox"/> If this is an After-The-Fact permit application, provide the date upon which the proposed change did happen: : ____/____/____	21. Date of anticipated Start-up if registration is granted: <u>3, 1, 16</u>
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> Percentage 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.

- 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: EQUIPMENT DATA SHEETS AND REGISTRATION SECTION APPLICABILITY FORM
- ATTACHMENT H: AIR POLLUTION CONTROL DEVICE SHEETS
- ATTACHMENT I: EMISSIONS CALCULATIONS
- ATTACHMENT J: CLASS I LEGAL ADVERTISEMENT
- ATTACHMENT K: ELECTRONIC SUBMITTAL
- ATTACHMENT L: GENERAL PERMIT REGISTRATION APPLICATION FEE
- ATTACHMENT M: SITING CRITERIA WAIVER
- ATTACHMENT N: MATERIAL SAFETY DATA SHEETS (MSDS)
- 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 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)

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

I hereby certify that (please print or type) _____ 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 Director 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

(please use blue ink)



Responsible Official

1-7-16

Date

Name & Title

(please print or type)

DWAINE DOSS OWNER/CEO

Signature

(please use blue ink)

Authorized Representative (if applicable)

Date

Applicant's Name

DWAINE DOSS DOSS ENTERPRISES, LLC

Phone & Fax

304-884-2325

Phone

304-884-2328

Fax

Email

dwaincdoss@dossenterprises.com

ATTACHMENT A:
CURRENT BUSINESS CERTIFICATE

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

ISSUED TO:
**DOSS ENTERPRISES LC
14793 US HIGHWAY 33 W
LINN, WV 26384-9311**

BUSINESS REGISTRATION ACCOUNT NUMBER: 1005-7560

This certificate is issued on: **06/11/2010**

*This certificate is issued by
the West Virginia State Tax Commissioner
in accordance with W.Va. Code § 11-12.*

*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.

CONTRACTOR LICENSE

Authorized by the

West Virginia Contractor Licensing Board

Number: WV027217

Classification:

EXCAVATION
CONCRETE
MANUFACTURED HOME INSTALLATION
SPECIALTY

DOSS ENTERPRISES LC
DBA DOSS ENTERPRISES LC
7522 US HWY 19N
JANE LEW, WV 26378

Date Issued

Expiration Date

JULY 07, 2015

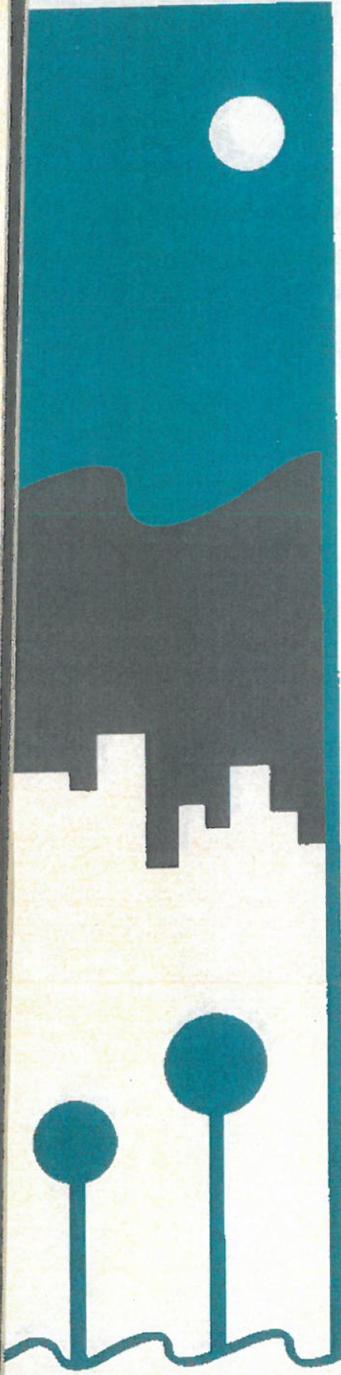
JULY 07, 2016



Authorized Company Signature



Chair, West Virginia Contractor
Licensing Board



WEST VIRGINIA
CONTRACTOR
LICENSING
BOARD

This license, or a copy thereof, must be posted in a conspicuous place at every construction site where work performed. This license number must appear in all advertisements, on all bid submissions and on all fully executed and binding contracts. This license cannot be assigned or transferred by licensee. Issued under provisions of the West Virginia Code, Chapter 21, Article 11.

**ATTACHMENT B:
PROCESS DESCRIPTION**



.7522 US HWY 19 N Jane Lew, WV 26378

www.dossexterprises.com

Process Description for Doss Crusher

Rock is pushed to rock stockpile. An excavator transfers the rock to the jaw crushers. The crushed rock is dumped from the crusher to the crushed product stockpile. The crushed product is taken from the stockpile by loader and transferred to trucks for transportation to the final use on site.

ATTACHMENT C:
DESCRIPTION OF FUGITIVE EMISSIONS



.7522 US HWY 19 N Jane Lew, WV 26378

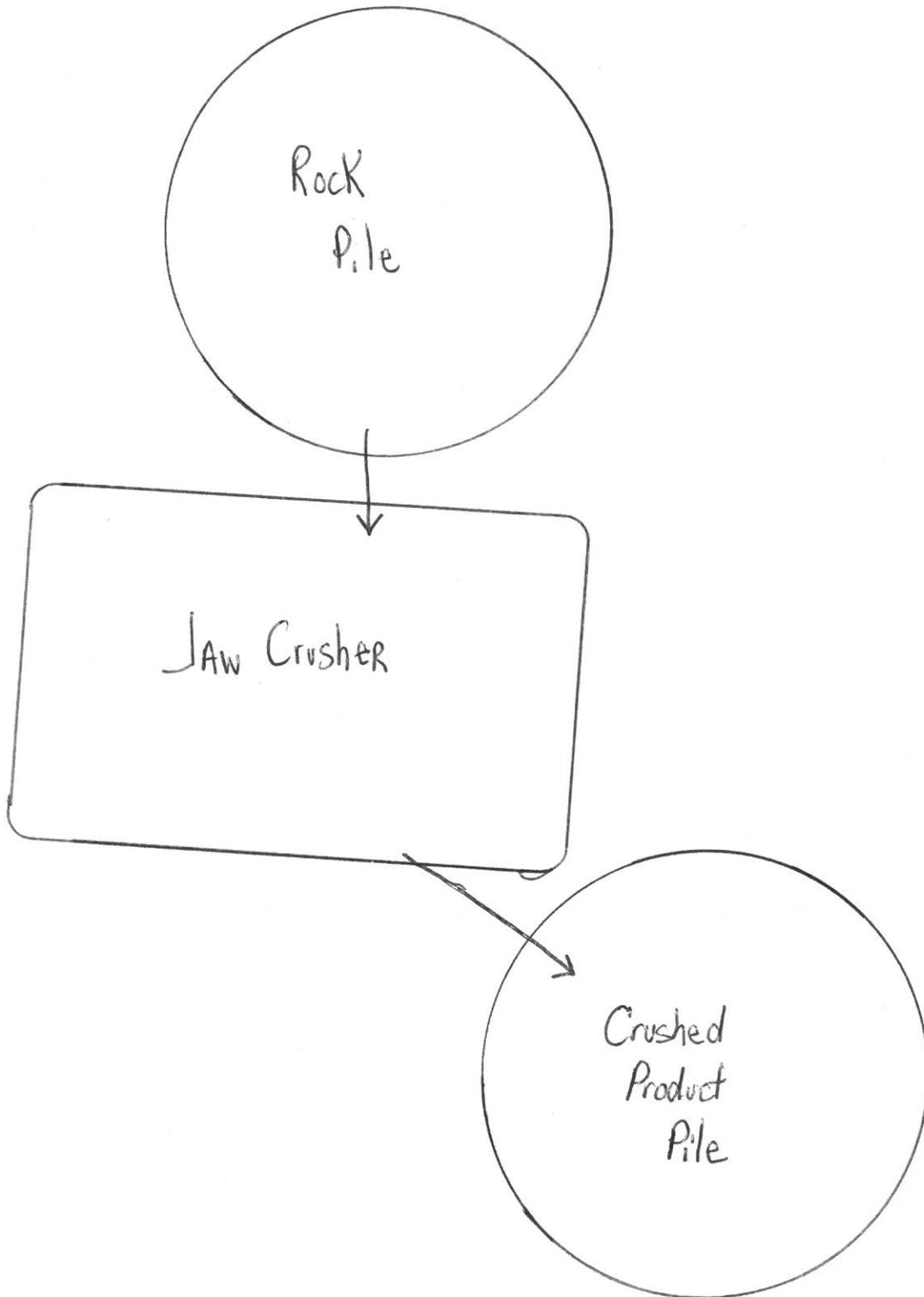
www.dossexterprises.com

Fugitive Emissions for Crusher

Fugitive emissions points for the crusher are the unpaved haulroads and stockpiles. A water truck will be utilized to pump and spray water on haulroads and stockpiles. Water will be utilized for dust control.

ATTACHMENT D:
PROCESS FLOW DIAGRAM

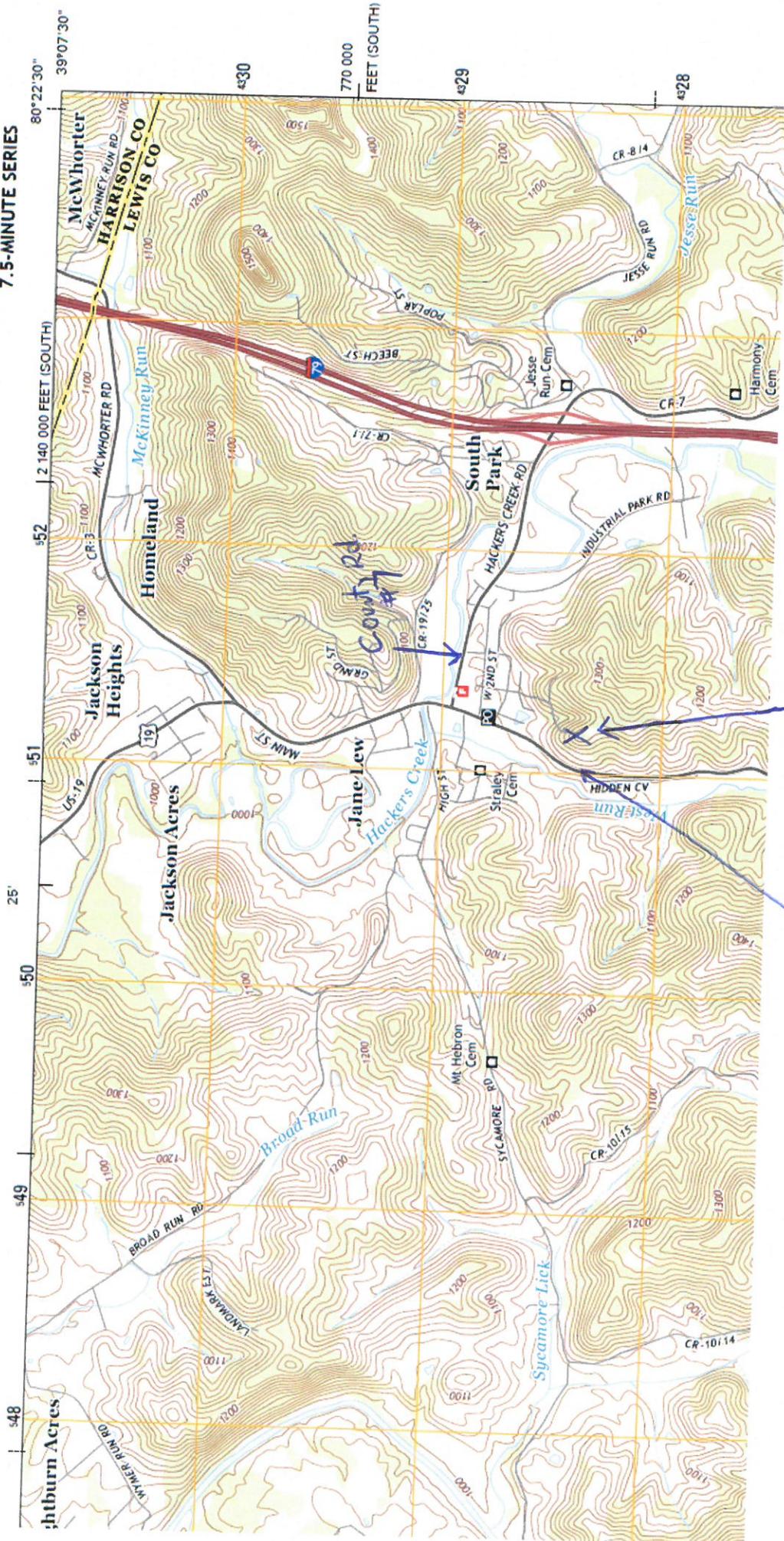
PROCESS Diagram



ATTACHMENT E:
PLOT PLANS



WESTON QUADRANGLE
WEST VIRGINIA
7.5-MINUTE SERIES



STATE ROUTE 19

Site Location Boss #3

General Notes:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE LOCAL, STATE AND FEDERAL AGENCIES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE LOCAL, STATE AND FEDERAL AGENCIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE LOCAL, STATE AND FEDERAL AGENCIES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE LOCAL, STATE AND FEDERAL AGENCIES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE LOCAL, STATE AND FEDERAL AGENCIES.

NOT FOR CONSTRUCTION

Prepared By: **PVE Sheffler**
 10000 Old Lee Road, Suite 100, Leesville, SC 29556
 Phone: 803-785-1111
 Fax: 803-785-1112

Prepared For: **Dwaine D. Doss**
 7822 US Hwy 19 N,
 Jena, LA, W.V. 25778

811
 Homeowner's liability
 Call before you dig

DATE ISSUED:	DATE (of issue)
1	CONSTRUCTION
2	
3	
4	
5	
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7	
8	
9	
10	
11	
12	

Sheet No.: **Jena, La., Lewis County, West Virginia**
 Project Name: **DOSS ENTERPRISES
 PROPOSED ACCESS ROAD AND PAD**
 Drawing Name: **SITE GRADING PLAN**
 Project No.: **410004**
 Drawing No.: **C-400**



ATTACHMENT F:
AREA MAPS

**ATTACHMENT I:
EMISSIONS CALCULATIONS**

ATTACHMENT J:
CLASS I LEGAL ADVERTISEMENT

Air Quality Permit Notice
Notice of Application

Notice is given that Doss Enterprises, LLC has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for a General Permit G40-C, for a rock crushing and screening operation located near Jane Lew in Lewis County, West Virginia:

The latitude and longitude coordinates are: 39.103821, -80.408275.

The applicant estimates the potential to discharge the following Regulated Air Pollutants will be: PM-17 TPY, PM10-8 TPY, NO_x-3 TPY, CO-1 TPY, VOCs-1 TPY, SO₂-3 TPY, Formaldehyde-1 TPY

Startup of operation is planned to begin on or about the 1st day of March, 2016. 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 13 day of Jan, 2016.

By: Doss Enterprises, LC
Dwaine Doss
CEO
7522 US HWY 19N
Jane Lew, WV 26378

**ATTACHMENT L:
GENERAL PERMIT REGISTRATION
APPLICATION FEE**

Air Quality Permit Notice
Notice of Application

Notice is given that Doss Enterprises, LC has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for a General Permit G40-C, for a rock crushing and screening operation located in Lewis County, West Virginia:

From the Intersection of State Rt. 19 and Co Rt. 7, travel south on State Rt. 19 for 1,400ft to Doss Enterprises Yard #3. 39.10370N -80.40563W is the coordinates of the site.

The applicant estimates the potential to discharge the following Regulated Air Pollutants will be 12 tons per year of Controlled Particulate Matter per Project. PM10 is 2.2 TPY

Startup of operation is planned to begin on or about the 1st day of March, 2016. 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.

G40-C 14 of 39

Nonmetallic Mineral Processing Plants

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 7 day of Jan, 2016.

By: Doss Enterprises, LC
Dwaine Doss
CEO
7522 US HWY 19N
Jane Lew, WV 26378

**ATTACHMENT O:
EMISSIONS SUMMARY SHEETS**

EMISSIONS SUMMARY

Name of applicant: Doss Enterprises
 Name of plant: Jane Lew

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>	0.02	0.07	0.02	0.07
<i>Unpaved Haulroad Emissions</i>	78.14	15.63	23.44	4.69
<i>Paved Haulroad Emissions</i>	0.00	0.00	0.00	0.00
Fugitive Emissions Total	78.16	15.70	23.46	4.76

POINT SOURCE EMISSIONS				
<i>Equipment Emissions</i>	16.33	3.27	16.33	3.27
<i>Transfer Point Emissions</i>	19.16	3.83	19.16	3.83
Point Source Emissions Total*	35.49	7.10	35.49	7.10

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

Facility Emissions Total	113.65	22.80	58.95	11.86
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***Facility Potential to Emit (PTE) (Baseline Emissions) = 7.10**
 (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>	0.01	0.03	0.01	0.03
<i>Unpaved Haulroad Emissions</i>	23.06	4.61	6.92	1.38
<i>Paved Haulroad Emissions</i>	0.00	0.00	0.00	0.00
Fugitive Emissions Total	23.07	4.65	6.93	1.42

POINT SOURCE EMISSIONS				
<i>Equipment Emissions</i>	5.79	1.16	5.79	1.16
<i>Transfer Point Emissions</i>	9.06	1.81	9.06	1.81
Point Source Emissions Total*	14.85	2.97	14.85	2.97

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

Facility Emissions Total	37.92	7.62	21.78	4.39
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1. Emissions From CRUSHING AND SCREENING

1a. Primary Crushing

Primary Crusher ID Number	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
1S	0.700	0.140	0.700	0.140	0.350	0.070	0.350	0.070
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
TOTAL	0.700	0.140	0.700	0.140	0.350	0.070	0.350	0.070

1b. Secondary and Tertiary Crushing

Secondary & Tertiary Crusher ID	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
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
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
TOTAL	0.000							

1c. Screening

Screen ID Number	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
2S	8.750	1.750	8.750	1.750	3.045	0.609	3.045	0.609
3S	4.375	0.875	4.375	0.875	1.523	0.305	1.523	0.305
4S	2.500	0.500	2.500	0.500	0.870	0.174	0.870	0.174
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
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
TOTAL	15.625	3.125	15.625	3.125	5.438	1.088	5.438	1.088

Crushing and Screening	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
TOTAL	16.325	3.265	16.325	3.265	5.788	1.158	5.788	1.158

1. Emissions From CRUSHING AND SCREENING (Continued)

EMISSION FACTORS

source: AP42, Fifth Edition, Revised 08/2004

(lb/ton of material throughput)

PM	
Primary Crushing	0.002
Tertiary Crushing	0.0054
Screening	0.025

PM-10	
Primary Crushing	0.001
Tertiary Crushing	0.0024
Screening	0.0087

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	19.162	3.832	19.162	3.832	9.063	1.813	9.063	1.813

Source:

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

Emissions From Batch Drop

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

Where:

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

Assumptions:

k - Particle size multiplier

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

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

Emission Factor

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

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

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

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

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
OS1	0.004	0.018	0.004	0.018	0.002	0.008	0.002	0.008
OS2	0.004	0.018	0.004	0.018	0.002	0.008	0.002	0.008
OS3	0.004	0.018	0.004	0.018	0.002	0.008	0.002	0.008
OS 4	0.004	0.018	0.004	0.018	0.002	0.008	0.002	0.008
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	0.016	0.072	0.016	0.072	0.008	0.034	0.008	0.034

Source:

Air Pollution Engineering Manual

Storage Pile Wind Erosion (Active Storage)

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

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

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

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

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

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	9.14	1.83	2.74	0.55	2.70	0.54	0.81	0.16
2	69.00	13.80	20.70	4.14	20.37	4.07	6.11	1.22
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	78.14	15.63	23.44	4.69	23.06	4.61	6.92	1.38

Source:

AP42, Fifth Edition, Revised 11/2006
13.2.2 Unpaved Roads

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

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

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

Emission Factors

For PM $E = ((\$35) \cdot ((\text{Inputs!}\$163)/12)^{\$36}) \cdot (((\text{Inputs!}H171)/3)^{\$37})$

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

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

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

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	0.00047	0.00047

Emission Factors

For PM

$$E = (\$34 * (((\$35)/2)^{0.65} * (((Inputs!G190)/3)^{1.5}) - (\$38)) * (1 - ((Inputs!\$18$$

For PM-10

$$E = (\$34 * (((\$35)/2)^{0.65} * (((Inputs!G190)/3)^{1.5}) - (\$38)) * (1 - ((Inputs!\$18$$

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	0.00047	0.00047

Emission Factors

For PM

$$E = (\$34 * (((\$35)/2)^{0.65} * (((Inputs!G190)/3)^{1.5}) - (\$38)) * (1 - ((Inputs!\$118)/4 * N)))$$

For PM-10

$$E = (\$34 * (((\$35)/2)^{0.65} * (((Inputs!G190)/3)^{1.5}) - (\$38)) * (1 - ((Inputs!\$118)/4 * N)))$$

For lb/hr

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

For Ton/yr

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

CRUSHING AND SCREENING AFFECTED SOURCE SHEET

Source Identification Number ¹		15	25	35	45		
Type of Crusher or Screen ²							
Make, Model No., Serial No. ³							
Date of Construction, Reconstruction, or Modification (Month/Year) ⁴		2015	2015	2015	2015		
Maximum Throughput ⁵	tons/hour	350	350	350	350		
	tons/year	140,000	140,000	140,000	140,000		
Material sized from/to: ⁶							
Average Moisture Content (%) ⁷		2	2	2	2		
Control Device ID Number ⁸		N/A	N/A	N/A	N/A		
Baghouse Stack Parameters ⁹	height (ft)	N/A	N/A	N/A	N/A		
	diameter (ft)	N/A	N/A	N/A	N/A		
	volume (ACFM)	N/A	N/A	N/A	N/A		
	exit temp (F)	-	-	-	-		
	UTM Coordinates	551.1164E 4728.4636N	"	"	"	"	Zone 17
Maximum Operating Schedule ¹⁰	hours/day	24	24	24	24		
	days/year	52	52	52	52		
	hours/year	8760	8760	8760	8760		

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

HM	Hammermill	SS	Stationary Screen	DR	Double Roll Crusher
SD	Single Deck Screen	BM	Ball Mill	DD	Double-Deck Screen
RB	Rotary Breaker	TD	Triple Deck Screen	JC	Jaw Crusher
GC	Gyratory Crusher	OT	Other		
- Enter the make, model number, and serial number of the crusher/screen.
- Enter the date that each crusher and screen was constructed, reconstructed, or modified.
- Enter the maximum throughput for each crusher and screen in tons per hour and tons per year.
- Describe the nominal material size reduction (e.g. +2"/-¾").
- Enter the average percent moisture content of the material processed.
- Enter the appropriate Control Device Identification Number for each crusher and screen. Refer to Table A - Control Device Listing and Control Device Identification Number Instructions in the Reference Document for Control Device ID prefixes and numbering.
- Enter the appropriate stack parameters if a baghouse control device is used.
- Enter the maximum operating schedule for each crusher and screen in hours per day, days per year and hours per year.

STORAGE ACTIVITY AFFECTED SOURCE SHEET

Source Identification Number ¹	OS1	OS2	OS3	OS4		
Type of Material Stored ²	rip rap	crushed rock	1" rock	3" and 4" rock		
Average Moisture Content (%) ³	2	2	2	2		
Maximum Yearly Storage Throughput (tons) ⁴	35,000	35,000	35,000	35,000		
Maximum Storage Capacity (tons) ⁵	35,000	35,000	35,000	35,000		
Maximum Base Area (ft ²) ⁶	1600	1600	1600	1600		
Maximum Pile Height (ft) ⁷	8	8	8	8		
Method of Material Load-in ⁸	SS	SS	SS	SS		
Load-in Control Device Identification Number ⁹	N/A	N/A	N/A	N/A		
Storage Control Device Identification Number ⁹	N/A	N/A	N/A	N/A		
Method of Material Load-out ⁸	FE	FE	FE	FE		
Load-out Control Device Identification Number ⁹	FE	FE	FE	FE		

- 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
- Describe the type of material stored or stockpiled. (e.g. sized material, raw material, refuse, etc).
- Enter the average percent moisture content of the stored material.
- Enter the maximum yearly storage throughput for each storage activity.
- Enter the maximum storage capacity for each storage activity in tons (e.g. silo capacity, maximum stockpile size, etc.)
- For stockpiles, enter the maximum stockpile base area.
- For stockpiles, enter the maximum stockpile height.
- 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
- 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.

HAULROAD EMISSIONS

Include G40-C Emission Calculation Spreadsheet indicating haulroad emissions, or submit calculations indicating assumptions made to substantiate emission values.

Emission Source	Uncontrolled Emissions		Controlled Emissions	
	Hourly (lb/hr)	Annual (tpy)	Hourly (lb/hr)	Annual (tpy)
<i>unpaved haul road</i>	<i>78.14</i>	<i>15.63</i>	<i>23.44</i>	<i>4.69</i>

BAGHOUSE AIR POLLUTION CONTROL DEVICE SHEET

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

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

N/A

ENGINE DATA SHEET

Source Identification Number ¹		CE 1					
Engine Manufacturer and Model		CAT C-7.1 ACERT					
Manufacturer's Rated bhp/rpm		225					
Source Status ²		NS					
Date Installed/Modified/Removed (Month/Year) ³		4-2016					
Engine Manufactured/Reconstruction Date ⁴		2015					
Is this a Certified Stationary Compression Ignition Engine according to 40CFR60 Subpart III? (Yes or No) ⁵		yes					
Is this a Certified Stationary Spark Ignition Engine according to 40CFR60 Subpart JJJJ? (Yes or No) ⁶		—					
Engine, Fuel and Combustion Data	Engine Type ⁷	RB45					
	APCD Type ⁸	DOC					
	Fuel Type ⁹	2FO					
	H ₂ S (gr/100 scf)	0					
	Operating bhp/rpm	225					
	BSFC (Btu/bhp-hr)	—					
	Fuel throughput (ft ³ /hr)	—					
	Fuel throughput (MMft ³ /yr)	—					
	Operation (hrs/yr)	8760					
Reference ¹⁰	Potential Emissions ¹¹	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr
MD	NO _x	0.56	2.453				
MD	CO	0.075	0.33				
MD	VOC	0.011	0.05				
AP	SO ₂	0.5	2.2				
AP	PM ₁₀	0.5	2.2				
AP	Formaldehyde	0.11	0.48				

1. Enter the appropriate Source Identification Number for each reciprocating internal combustion compressor/generator engine located at the facility. Multiple compressor engines should be designated CE-1, CE-2, CE-3 etc. Emergency Generator engines should be designated EG-1, EG-2, EG-3 etc. If more than three (3) engines exist, please use additional sheets.

2. Enter the Source Status using the following codes:

- | | | | |
|----|---|----|-------------------|
| NS | Construction of New Source (installation) | ES | Existing Source |
| MS | Modification of Existing Source | RS | Removal of Source |

[Print](#) | [Close Window](#)**Subject:** CAT C7.1 Engine Emissions**From:** "Coccari, Gene M" <Gene.M.Coccari@wv.gov>**Date:** Tue, Jan 05, 2016 2:35 pm**To:** "rodneysomerville@dossenterprises.com" <rodneysomerville@dossenterprises.com>**Attach:** Doss Enterprises CAT engine emissions.xlsx

SBizhub 42316010515182.pdf

Hello-

Thank you for the engine information you submitted last week. The "Certificate of Conformity" from the manufacturer of the engine that was submitted shows that it is an U.S. EPA Certified Engine, which means it meets the provisions of a rule outlined under federal New Source Performance Standards (NSPS) codified at 40 CFR Part 60, Subpart IIII, which outline "Standards of Performance for Stationary Compression Ignition (CI) Internal Combustion Engines." This rule covers diesel (CI) emergency generators manufactured after 4/1/2006. Since the 2015 diesel engine is subject to this rule, to meet the rule it has to be shown to be certified by U.S. EPA, which this certificate indicates, and should be kept on file to show compliance with the NSPS. The certificate also indicates the engine family number for the engine, FCPXL7.01HPF-022. Taking this engine family number, one can then search U.S. EPA's database of certified engine information found at <http://www3.epa.gov/otaq/certdata.htm>. On this webpage, is found on the following spreadsheet (see attached excerpt in pertinent part) under:

Large Engine Certification Data NRCI (2012 -) Engine Family and Models Information, Certification Test and Greenhouse Gas Data by Model Year

For the CAT C7.1 engine in question (168 kW or 225 hp), within the listed Power Category (130<kW<=560), the SBAP took the listed emissions and calculated hourly and yearly emissions in pounds per hour (PPH) and tons per year (TPY), based on a 8,760 hours per year potential to emit:

$$\text{NOx} = 1.51 \text{ g/kW-hr} * 168 \text{ kW} = 254 \text{ g/hr} \div 454 \text{ g/lb} = \mathbf{0.56 \text{ PPH}} \text{ and } \mathbf{2.453 \text{ TPY}}$$

$$\text{CO} = 0.2 \text{ g/kW-hr} * 168 \text{ kW} = 34 \text{ g/hr} \div 454 \text{ g/lb} = \mathbf{0.075 \text{ PPH}} \text{ and } \mathbf{0.33 \text{ TPY}}$$

$$\text{VOCs}^* = 0.03 \text{ g/kW-hr} * 168 \text{ kW} = 5.04 \text{ g/hr} \div 454 \text{ g/lb} = \mathbf{0.011 \text{ PPH}} \text{ and } \mathbf{0.05 \text{ TPY}}$$

Three other pollutant emissions are required for the application that are not available directly, so they must be estimated. These estimates are derived from emission factors from U.S. EPA's AP-42, a "Compilation of Air Pollutant Emission Factors," 5th edition. Specifically, Chapter 3 outlines factors for "Stationary Internal Combustion Sources" that can be used to quantify emissions for your engine. Section 3.3 gives factors for "Gasoline and Diesel Industrial Engines," which are measured in pounds of pollutant per hp-hr of power output (lb/hp-hr), as follows:

$$\text{PM}_{10} = 0.0022 \text{ lb/hp-hr} * 225 \text{ hp} = \mathbf{0.5 \text{ PPH}} \text{ and } \mathbf{2.2 \text{ TPY}}$$

$$\text{SO}_2 = 0.0021 \text{ lb/hp-hr} * 225 \text{ hp} = \mathbf{0.48 \text{ PPH}} \text{ and } \mathbf{2.1 \text{ TPY}}$$

$$\text{Formaldehyde}^{**} = 0.000463 \text{ lb/hp-hr} * 225 \text{ hp} = \mathbf{0.11 \text{ PPH}} \text{ and } \mathbf{0.48 \text{ TPY}}$$

This information has been entered into the engine specification page in the G-40C application for the "Prevention and Control of Air Pollution in regard to the Construction, Modification, Relocation,

Administrative Update and Operation of Nonmetallic Mineral Processing Plants." For the engine, you should also attach the "Certificate of Conformity," as well as any other pertinent data, including this e-mail. I hope this information is useful. Let me know if any more questions arise. Thank you.

*NMHC is surrogate for VOCs

** Aldehydes are surrogate for Formaldehyde

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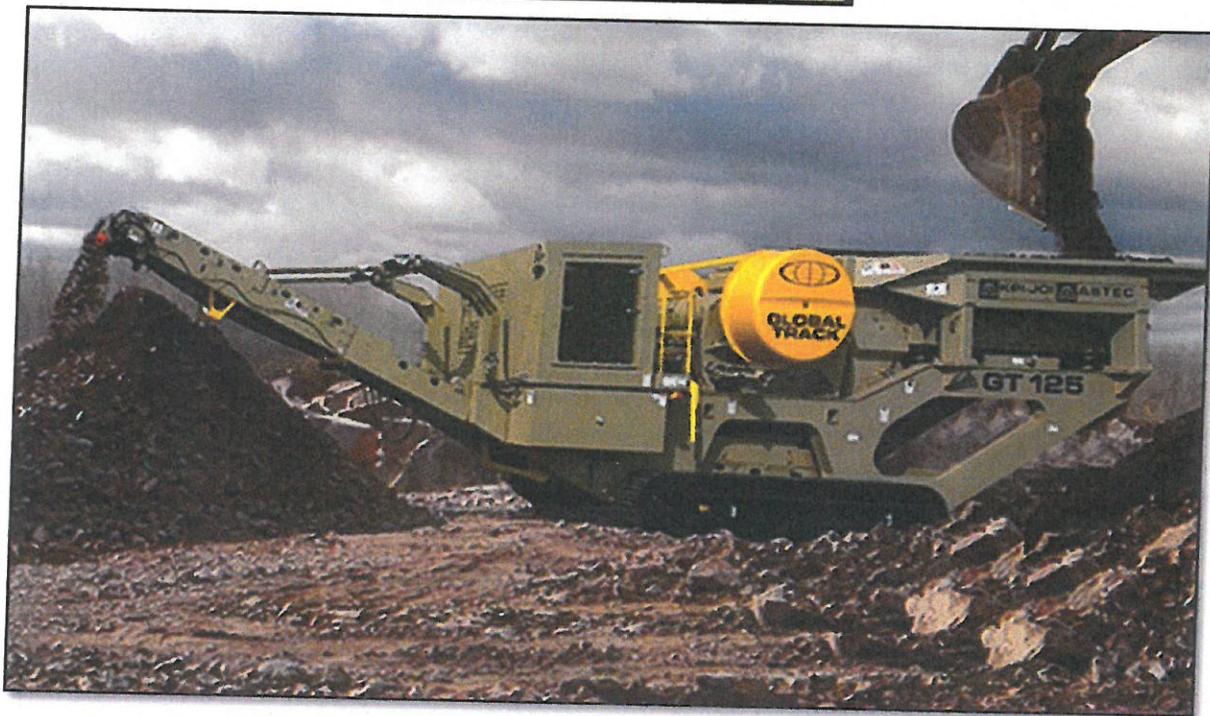
December 10, 2015

Quote #:121518

Mr. Dwaine Doss
Doss Enterprises
7522 US Highway 19 North
Jane Lew, WV 26378

Dear Mr. Doss:

Murrysville Machinery Company is pleased to offer you the following equipment for your crushing needs.



GT125 TRACK MOUNTED JAW CRUSHER



American Made Since 1928 in Yankton, SD USA

EQUIPMENT DESCRIPTION

HOPPER & FEEDER

- 40" x 14' Vibrating Pan Feeder
- 4' Grizzly Independent Vibrating Fingers
- 5 ½ Cubic Yard Hopper

JAW CRUSHER

- 2742 Vanguard Jaw
- Hydraulically Adjustable
- Hydraulically Driven and Reversible

UNDERCRUSHER CONVEYOR

- 36" X 40' Under Crusher Conveyor
- Impact Bed with 330 3-ply belting

END DELIVERY CONVEYOR

- 36" x 40' Hydraulic Drive
- 330 PIW Belt
- Conveyor Easily Removable for Maintenance
- Martin Belt Wiper

ENGINE

- CAT C7.1 225 HP Tier IVi, 1800 RPM
- 140 Gallon Fuel Tank
- Estimated Fuel Consumption: 8 Gallons per Hour

HYDRAULICS

- Hydrostatic Pump Group and Circuit CONTROL SYSTEM
- Tethered Pennant for Operation

TRACK UNDERCARRIAGE

- Track width 400 mm (15.75")

HYDRAULICS

- One 12 GPM Auxiliary Hydraulic Circuit for Side Delivery Conveyor

SIDE DELIVERY CONVEYOR

- 18" x 11' (approx.) with Hydraulic Fold for Travel

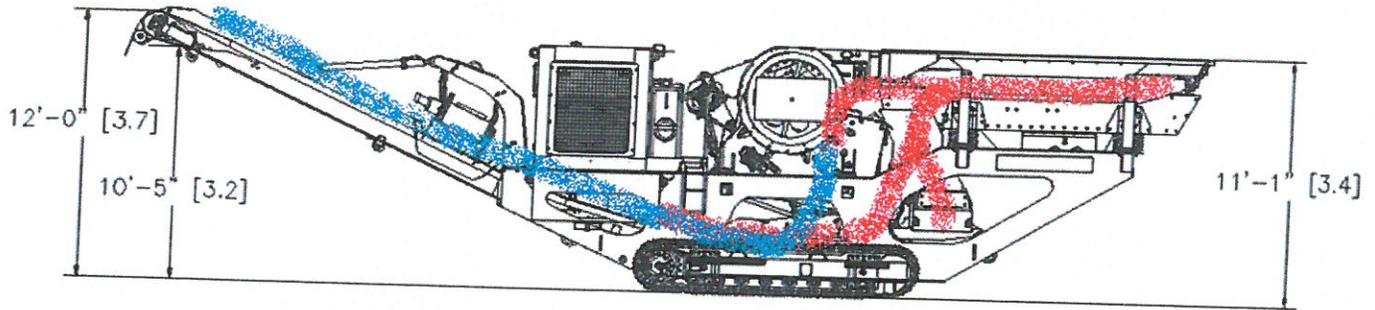
DUST SUPPRESSION SYSTEM

- With Manifold for Customer Water Source

WIRELESS HANDHELD RADIO REMOTE CONTROL & RECEIVER

TRANSPORTATION DIMENSIONS

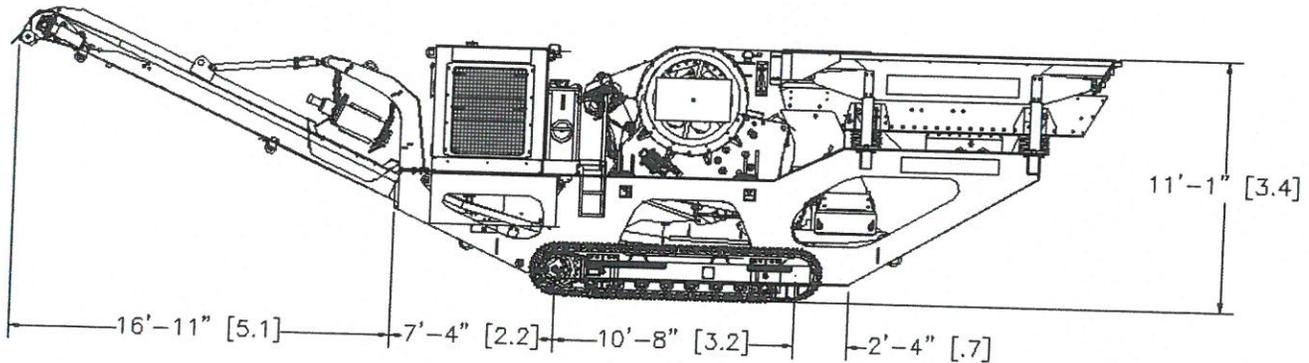
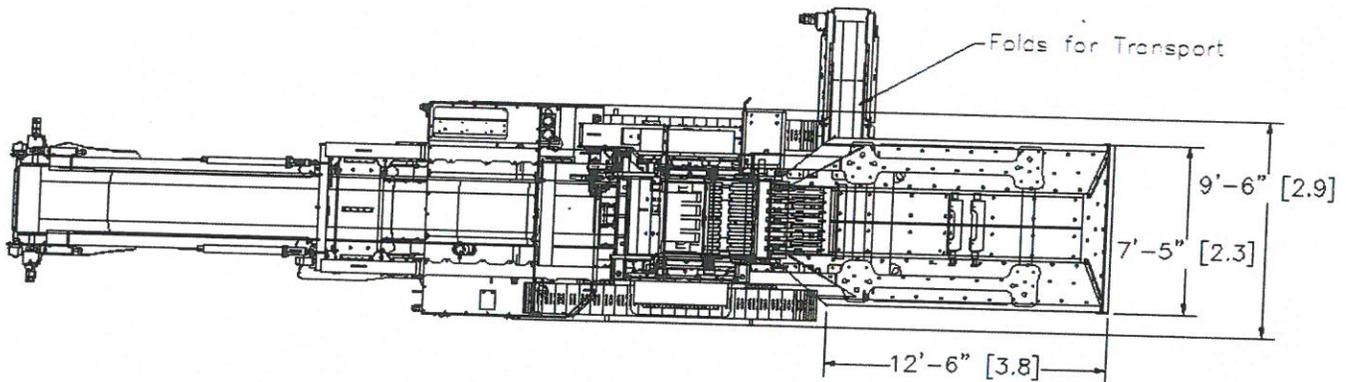
- Height: 11' - 2"
- Width: 9' - 6"
- Length: 52' - 8"
- Weight (approx.): 84,000 lbs.



GT125 JAW PLANT

• PHYSICAL/OPERATING CHARACTERISTICS

Operating Length.....	49' 0" / 14.9m	Operating Width.....	9' 4" / 2.8m
Travel Length.....	49' 10" / 15.2m	Travel Width.....	9' 4" / 2.8m
Operating Height.....	12' 2" / 3.7m	Feed Height.....	11' 2" / 3.4m
Travel Height.....	11' 2" / 3.4m	Discharge Height.....	11' 4" / 3.5m
Ground Clearance.....	10" / 0.3m	Side Discharge (optional).....	4' 5" / 1.4m
		Unit Weight (est.) w/o options.....	81,000 lb./ 36,741 kg



Note: Specifications are subject to change without notice.

Because KPI-JCI and Astec Mobile Screens may use in its catalog and literature, field photographs of its products which may have been modified by the owners, products furnished by KPI-JCI and Astec Mobile Screens may not necessarily be as illustrated therein. Also continuous design progress makes it necessary that specifications be subject to change without notice. All sales of the products of KPI-JCI and Astec Mobile Screens are subject to the provisions of its standard warranty. KPI-JCI and Astec Mobile Screens does not warrant or represent that its products meet any federal, state, or local statutes, codes, ordinances, rules, standards or other regulations, including OSHA and MSHA, covering safety, pollution, electrical wiring, etc. Compliance with these statutes and regulations is the responsibility of the user and will be dependent upon the area and the use to which the product is put by the user. In some photographs, guards may have been removed for illustrative purposes only. This equipment should not be operated without all guards attached in their normal position. Placement of guards and other safety equipment is often dependent upon the area and how the product is used. A safety study should be made by the user of the application, and, if required additional guards, warning signs and other safety devices should be installed by the user, wherever appropriate before operating the products.



700 W 21st. St., Yankton, SD 57078
1-800-542-9311 Fax: 605-665-8858

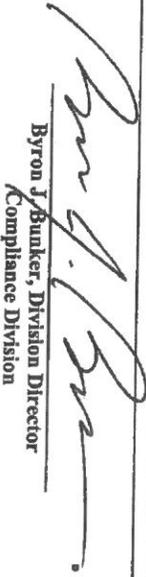
Email: mail@kpijci.com
www.kpijci.com

Ref # - 338624 KPI GT125 2/11/15 Rev 0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
2015 MODEL YEAR
CERTIFICATE OF CONFORMITY
WITH THE CLEAN AIR ACT

**OFFICE OF TRANSPORTATION
 AND AIR QUALITY
 ANN ARBOR, MICHIGAN 48105**

Certificate Issued To: Caterpillar Inc. (U.S. Manufacturer or Importer)	Effective Date: 10/27/2014	 Byron J. Bunker, Division Director Compliance Division	Issue Date: 10/27/2014
Certificate Number: FCPXL7.01HPF-022	Expiration Date: 12/31/2015		Revision Date: N/A

Model Year: 2015	Mobile/Stationary Indicator: Both Emissions Power Category: 130<KW<=560 Fuel Type: Diesel After Treatment Devices: PTOX-DPF-Active, Diesel Oxidation Catalyst Non-after Treatment Devices: Electronic/Electric EGR - Cooled, Electronic Control, Electronic/Electric EGR FELs: NOx 2.00 g/KW-hr
Manufacturer Type: Original Engine Manufacturer Engine Family: FCPXL7.01HPF	

Pursuant to Section 111 and Section 213 of the Clean Air Act (42 U.S.C. sections 7411 and 7547) and 40 CFR Parts 60 and 1039, and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued with respect to the test engines which have been found to conform to applicable requirements and which represent the following engines, by engine family, more fully described in the documentation required by 40 CFR Parts 60 and 1039 and produced in the stated model year.

This certificate of conformity covers only those new compression-ignition engines which conform in all material respects to the design specifications that applied to those engines described in the documentation required by 40 CFR Parts 60 and 1039 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Parts 60 and 1039.

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 1068 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR Parts 60 and 1039. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void *ab initio* for other reasons specified in 40 CFR Parts 60 and 1039.

This certificate does not cover engines sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.

This certificate of conformity is conditional upon compliance of said manufacturer with the averaging, banking and trading provisions of 40 CFR Part 1039, Subpart H. Failure to comply with these provisions may render this certificate void *ab initio*.

Rating Curves Data Sheet

Curve T 4036 Sheet 2

Note1: Unless otherwise specified, all stated data is for maximum rated speed and 100% load.

General Data

Engine Model: C7.1 ACERT
 Number Of Cylinders: 6
 Bore (mm): 105.0
 Stroke (mm): 135.0
 Configuration: Vertical In Line
 Displacement (litres): 7.01
 Aspiration: Turbocharged
 Compression Ratio: 16.4 : 1
 Combustion Bowl: Re-entrant

Cooling System

Heat Rejected @ Rated Speed (kW):
 Heat Rejected @ Peak Torque (kW):
 Coolant Flow (litres/min):
 Thermostat - Start To Open (°C): 82
 Thermostat - Fully Open (°C): 94
 Recommended Cap Pressure (kPa): 100
 Max Top Tank Pressure (kPa): 100 *
 * See General Installation Manual

Fuel System

Fuel Pump Model: Denso
 Injection Timing (°BTDC) - Static:
 - Dynamic:
 HP Rail Pressure (MPa):
 Fuel Pump Pressure (In) (kPa):
 Fuel Filter Max Particle Size (micron): 4
 Fuel Return System Type: Return to Tank

Air System

Engine Air Flow (kg/min):
 Induction Manifold Pressure (kPa):

Charge Air Cooler System

Charge Air Cooling System: Air-to-Air
 Max Total Pressure Drop inc Pipes (kPa): 10.0
 Charge Air Cooler Heat Rejection (kW):
 Manifold Charge Air Temperature (°C): 55.0

Lubrication System

Lubricating Oil Specification: See Engine Specification Manual

Turbocharger

Turbocharger Type:
 Maximum Altitude (m): 3000

Exhaust System

Exhaust Flow (kg/min):
 Exhaust Temperature (°C):

Performance Data

Friction Power @ Rated Speed (kW):
 Friction Power @ Peak Torque (kW):
 Torque @ 800 rev/min (Nm): 690

Cold Start Capability

Unaided Start Limit (°C): Not Applicable
 Aided Start Limit (°C): -25
 Start Aid (Optional): Glowplugs fitted as standard
 Minimum Cranking Speed (rev/min) - unaided: Not applicable
 - aided:

For further performance data see table below.

Performance Data

Speed (rev/min)	Torque (Nm)	Power (kW)	Max Exhaust Back Pressure (kPa)	Max Inlet Restriction (kPa)	Governing Categories (key on sht 1)
2200	729	168.0	28.0	6.5	E
2100	764	168.0			
2000	802	168.0			
1900	844	167.9			
1800	891	167.9			
1700	943	167.9			
1600	1002	167.9			
1500	1069	167.9			
1400	1092	160.1			
1300	1082	147.3			
1200	1045	131.3			
1100	900	103.7			
1000	700	73.3			
900	695	65.5			
800	690	57.8			

Rating Standard: ISO 14396: 2002

Further Notes:

See PSR 57875 for further details

Internal References

Curve Issue No: 1
 Curve Issue Date: 13-Aug-2012
 DCP Number(s):

TAN Number:
 FIE EDR Number

**INDUSTRIAL ENGINE PERFORMANCE
DATA [DX0283]**

DECEMBER 16, 2015

Performance Number: P4036A

Sales Model: C7.1 DITA	Combustion: DI	Aspr: TA
Engine Power: 225 HP	Speed: 2,200 RPM	After Cooler: AA
Manifold Type:	Governor Type:	After Cooler Temp(F): 131
Turbo Quantity:	Engine App: IN	Turbo Arrangement:
Application Type: INDUSTRIAL	Engine Rating: IN	Strategy:
Rating Type:	Certification:	

General Performance Data 1

ENGINE SPEED RPM	ENGINE POWER BHP	ENGINE TORQUE LB.FT	ENGINE BMEP PSI	FUEL BSFC LB/BHP-HR	FUEL RATE GPH	INTAKE MFLD P IN-HG	INTAKE AIR FLOW CFM	EXH STACK TEMP DEG F	EXH GAS FLOW CFM
2,200	225	537.68	189.6	0.37	11.98	51.97	483.81	734.9	444.97
2,100	225	563.5	198.7	0.36	11.73	49.96	452.03	762.44	416.71
2,000	225	591.52	208.58	0.36	11.43	49.01	423.78	772.88	391.99
1,800	225	657.17	231.73	0.35	11.12	48.15	388.46	818.06	363.74
1,600	225	739.04	260.59	0.34	10.95	54.43	374.34	817.34	353.15
1,500	225	788.45	278.03	0.35	11.11	57.98	377.87	851.36	356.68
1,400	215	805.42	284	0.35	10.59	59.14	360.21	849.38	342.55
1,300	198	798.04	281.41	0.35	9.9	55.23	328.43	877.82	314.3
1,200	176	770.75	271.78	0.36	8.95	50.28	296.64	896.54	282.52

General Performance Data 2

ENGINE SPEED RPM	ENGINE POWER BHP	ENGINE COMPRES S OUT TEMP DEG F	CHARGE AIRFLOW LB/MIN
2,200	225	346.1	34.39
2,100	225	333.86	32.19
2,000	225	325.22	30.42
1,800	225	318.02	28
1,600	225	335.84	27.12
1,500	225	347.54	27.34
1,400	215	350.24	26.23
1,300	198	338.72	24.03
1,200	176	322.88	21.61

Engine Heat Rejection Data

ENGINE SPEED RPM	ENGINE POWER BHP	REJ TO JW BTU/MN	REJ TO EXHAUST BTU/MN	FROM AFT CLR BTU/MN
2,200	225	6,420.6	11,243.2	1,780.0
2,100	225	6,267.1	10,822.3	1,581.0
2,000	225	6,096.5	10,287.8	1,421.8
1,800	225	5,738.2	9,855.5	1,262.5
1,600	225	5,510.7	9,559.8	1,325.1
1,500	225	5,459.5	9,878.3	1,421.8
1,400	215	5,152.4	9,468.8	1,376.2
1,300	198	4,902.2	8,871.7	1,199.9
1,200	176	4,509.8	8,138.1	995.2

EMISSIONS DATA

***** J1

No notes were found for this certification...

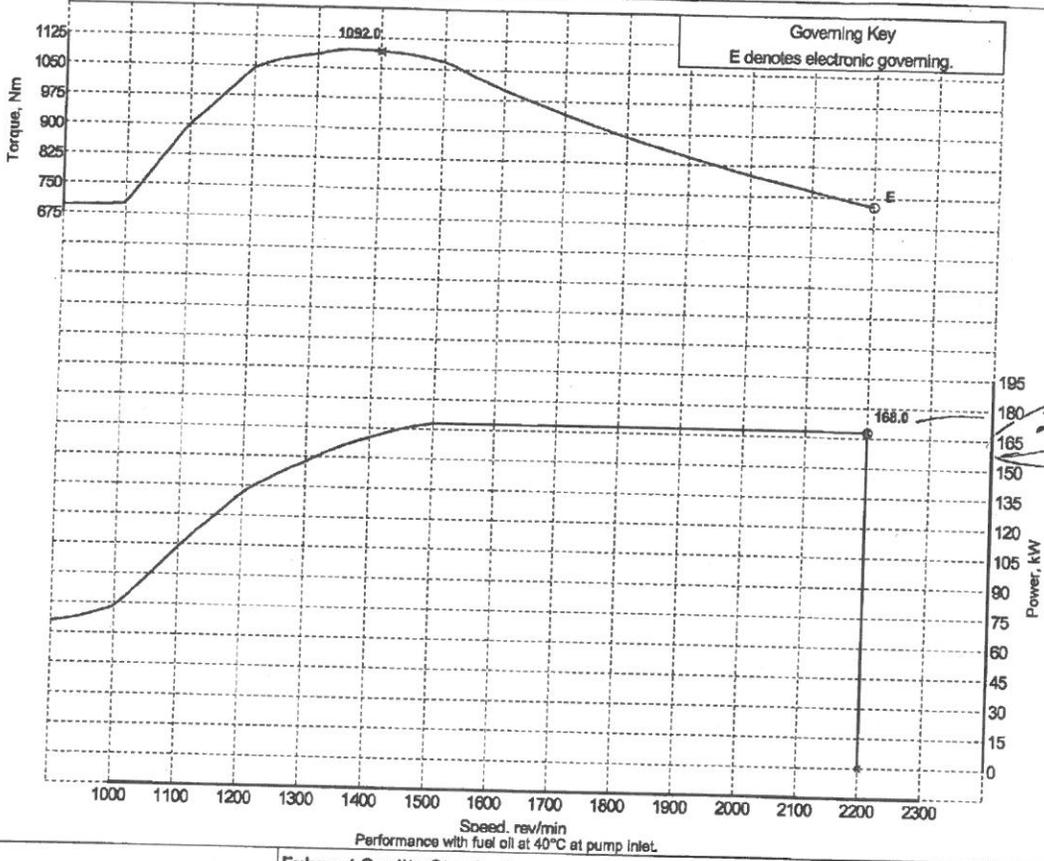
REFERENCE EXHAUST STACK DIAMETER	0 IN
WET EXHAUST MASS	2,142.9 LB/HR
WET EXHAUST FLOW (-- STACK TEMP)	--
WET EXHAUST FLOW RATE (32 DEG F AND 29.98 IN HG)	--
DRY EXHAUST FLOW RATE (32 DEG F AND 29.98 IN HG)	--
FUEL FLOW RATE	--

The powers listed above and all the Powers displayed are Corrected Powers

Identification Reference and Notes			
Engine Arrangement:		Lube Oil Press @ Rated Spd(PSI):	55.6
Effective Serial No:		Piston Speed @ Rated Eng SPD(FT/Min):	--
Primary Engine Test Spec:		Max Operating Altitude(FT):	9,842.5
Performance Parm Ref:		PEEC Elect Control Module Ref	
Performance Data Ref:	P4036A	PEEC Personality Cont Mod Ref	
Aux Coolant Pump Perf Ref:			
Cooling System Perf Ref:		Turbocharger Model	
Certification Ref:	EPA Tier 4F	Fuel Injector	
Certification Year:		Timing-Static (DEG):	--
Compression Ratio:	16.5	Timing-Static Advance (DEG):	--
Combustion System:	DI	Timing-Static (MM):	--
Aftercooler Temperature (F):	131	Unit Injector Timing (MM):	--
Crankcase Blowby Rate(CFH):	--	Torque Rise (percent)	49.8
Fuel Rate (Rated RPM) No Load(Gal/HR):	--	Peak Torque Speed RPM	1400
Lube Oil Press @ Low Idle Spd(PSI):	103.1	Peak Torque (LB.FT):	805.4

T4036 - C7.1 ACERT (TTA), 168 kW, flat curve

CATERPILLAR® Caterpillar Inc. ©2012 Commercial in Confidence, proprietary information of Caterpillar Inc.	Engine Model: C7.1 ACERT	Curve: T 4036 Issue: 1 Date: 13-Aug-2012	Sheet 1
	Development Target - May be Subject to Change		
Rating Standards: Production Tolerance On Power Output: Total Barometric Pressure (kPa): Vapour Pressure (kPa): Air Inlet Temperature (°C):	ISO 14396: 2002 +3%, -3% 100 1 25	Fuel Types: Fuel Specification: Density (kg/l @ 15°C): Viscosity (mm²/s @ 40°C): Sulphur Content (% mass): Cetane No:	USA FED Off Highway EPA Part 1065.703 ULSD 0.840 - 0.865 2.0 - 3.2 0.0007 - 0.0015 40 - 50
		Europe Off Highway EU 2004/26/EC Stage 3B/4 0.833 - 0.837 2.3 - 3.3 0.001 max 54 max	



Notes:
 1. For duty cycle refer to the C rating definition(s) in the Caterpillar Industrial Engine Ratings Guide (LEGH0002)

Auxiliaries fitted to engine:
 Alternator - off load.
 Fan - not fitted.

Exhaust Quality Standard
Smoke:
 US EPA 40 CFR Part 1039.105.

Emissions:
 US EPA 40 CFR Part 1039 Tier 4 Final.
 EU NRRM 97/68/EC (as last amended) Stage 4.

Power Standard
 UNECE R120

Certification Refs (Rated Speeds)

Approved by:
 A.J. Curtis (Product Manager)
 Date: 7-Aug-2012

Accepted by:
 M.J. Parker (Product Engineering Manager)
 Date: 6-Aug-2012

Issued by:
 J.H. Flatters (Legislation Engineer)

ENGINE SALES MANUAL