

Temporary Regulation 13 Permit Application



**Portable Jaw Crusher
Trakpactor Premiertrak 400-R400**

**Prepared for:
Felman Production
4442 Graham Station Road
Letart, WV 25253**

**Prepared by:
Carri Coleman Tucker
O'Brien's Safety Services, L.L.C.**

**Reviewed by:
Joyce Gentry, P.E.
S&J Environmental Services LLC**

Thursday, June 18, 2015

*Felman Production Inc
Letart
053-00004
R13-3256T
Steve Pursley*

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Application for Permit

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WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR QUALITY

601 57th Street, SE
 Charleston, WV 25304
 (304) 926-0475
www.dep.wv.gov/daq

**APPLICATION FOR NSR PERMIT
 AND
 TITLE V PERMIT REVISION
 (OPTIONAL)**

PLEASE CHECK ALL THAT APPLY TO NSR (45CSR13) (IF KNOWN):

- CONSTRUCTION MODIFICATION RELOCATION
 CLASS I ADMINISTRATIVE UPDATE TEMPORARY
 CLASS II ADMINISTRATIVE UPDATE AFTER-THE-FACT

PLEASE CHECK TYPE OF 45CSR30 (TITLE V) REVISION (IF ANY):

- ADMINISTRATIVE AMENDMENT MINOR MODIFICATION
 SIGNIFICANT MODIFICATION

IF ANY BOX ABOVE IS CHECKED, INCLUDE TITLE V REVISION INFORMATION AS ATTACHMENT S TO THIS APPLICATION

FOR TITLE V FACILITIES ONLY: Please refer to "Title V Revision Guidance" in order to determine your Title V Revision options (Appendix A, "Title V Permit Revision Flowchart") and ability to operate with the changes requested in this Permit Application.

Section I. General

1. Name of applicant (as registered with the WV Secretary of State's Office): Felman Production LLC		2. Federal Employer ID No. (FEIN): 020761849	
3. Name of facility (if different from above): Felman Production, Letart Facility		4. The applicant is the: <input type="checkbox"/> OWNER <input type="checkbox"/> OPERATOR <input checked="" type="checkbox"/> BOTH	
5A. Applicant's mailing address: 4442 Graham Station Rd. Letart, WV 25253-8701		5B. Facility's present physical address: US Route 62 North New Haven, WV	
6. West Virginia Business Registration. Is the applicant a resident of the State of West Virginia? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO - If YES, provide a copy of the Certificate of Incorporation/Organization/Limited Partnership (one page) including any name change amendments or other Business Registration 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.			
7. If applicant is a subsidiary corporation, please provide the name of parent corporation:			
8. 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: Owns property - If NO, you are not eligible for a permit for this source.			

9. Type of plant or facility (stationary source) to be constructed, modified, relocated, administratively updated or temporarily permitted (e.g., coal preparation plant, primary crusher, etc.): <u>Minor modification to slag processing plant, temporary jaw crusher</u>		10. North American Industry Classification System (NAICS) code for the facility: 331112/331492
11A. DAQ Plant ID No. (for existing facilities only): 03-54-05300004	11B. List all current 45CSR13 and 45CSR30 (Title V) permit numbers associated with this process (for existing facilities only): R13-2857B, R13-3073T, R30-05300004-2007, R13-3244T	

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

<p>12A</p> <ul style="list-style-type: none"> - For Modifications, Administrative Updates or Temporary permits at an existing facility, please provide directions to the <i>present location</i> of the facility from the nearest state road; - <i>Approximately 4 miles east of New Haven adjacent to US Route 33.</i> - For Construction or Relocation permits, please provide directions to the <i>proposed new site location</i> from the nearest state road. Include a MAP as Attachment B. - <i>Attached</i> 		
12.B. New site address (if applicable): N/A	12C. Nearest city or town: New Haven, WV	12D. County: Mason
12.E. UTM Northing (KM): 4312.468	12F. UTM Easting (KM): 419.73	12G. UTM Zone: 17
<p>13. Briefly describe the proposed change(s) at the facility: Adding Trackpacktor 400R jaw crusher to Trackpacktor 320R unit temporarily to test pre-crushing ability</p>		
<p>14A. Provide the date of anticipated installation or change: 08/01/2015</p> <ul style="list-style-type: none"> - If this is an After-The-Fact permit application, provide the date upon which the proposed change did happen: / / 		<p>14B. Date of anticipated Start-Up if a permit is granted: 08/01/2014</p>
<p>14C. Provide a Schedule of the planned Installation of/Change to and Start-Up of each of the units proposed in this permit application as Attachment C (if more than one unit is involved). <i>Attached - replacing in kind units only</i></p>		
<p>15. Provide maximum projected Operating Schedule of activity/activities outlined in this application: Hours Per Day 24 Days Per Week 7 Weeks Per Year 52</p>		
<p>16. Is demolition or physical renovation at an existing facility involved? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>		
<p>17. Risk Management Plans. If this facility is subject to 112(r) of the 1990 CAAA, or will become subject due to proposed changes (for applicability help see www.epa.gov/ceppo), submit your Risk Management Plan (RMP) to U. S. EPA Region III.</p>		
<p>18. Regulatory Discussion. List all Federal and State air pollution control regulations that you believe are applicable to the proposed process (<i>if known</i>). A list of possible applicable requirements is also included in Attachment S of this application (Title V Permit Revision Information). Discuss applicability and proposed demonstration(s) of compliance (<i>if known</i>). Provide this information as Attachment D.</p>		
<p>Section II. Additional attachments and supporting documents.</p>		
<p>19. Include a check payable to WVDEP – Division of Air Quality with the appropriate application fee (per 45CSR22 and 45CSR13). \$3,500 check will be sent to DAQ</p>		
<p>20. Include a Table of Contents as the first page of your application package.</p>		
<p>21. Provide a Plot Plan, e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is or is to be located as Attachment E (Refer to <i>Plot Plan Guidance</i>).</p> <ul style="list-style-type: none"> - Indicate the location of the nearest occupied structure (e.g. church, school, business, residence). 		
<p>22. Provide a Detailed Process Flow Diagram(s) showing each proposed or modified emissions unit, emission point and control device as Attachment F.</p>		
<p>23. Provide a Process Description as Attachment G.</p> <ul style="list-style-type: none"> - Also describe and quantify to the extent possible all changes made to the facility since the last permit review (if applicable). 		
<p><i>All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.</i></p>		
<p>24. Provide Material Safety Data Sheets (MSDS) for all materials processed, used or produced as Attachment H.</p> <ul style="list-style-type: none"> - For chemical processes, provide a MSDS for each compound emitted to the air. 		
<p>25. Fill out the Emission Units Table and provide it as Attachment I.</p>		
<p>26. Fill out the Emission Points Data Summary Sheet (Table 1 and Table 2) and provide it as Attachment J.</p>		
<p>27. Fill out the Fugitive Emissions Data Summary Sheet and provide it as Attachment K.</p>		
<p>28. Check all applicable Emissions Unit Data Sheets listed below:</p>		

- | | | |
|--|--|---|
| <input type="checkbox"/> Bulk Liquid Transfer Operations | <input type="checkbox"/> Haul Road Emissions | <input type="checkbox"/> Quarry |
| <input type="checkbox"/> Chemical Processes | <input type="checkbox"/> Hot Mix Asphalt Plant | <input checked="" type="checkbox"/> Solid Materials Sizing, Handling and Storage Facilities |
| <input type="checkbox"/> Concrete Batch Plant | <input type="checkbox"/> Incinerator | <input type="checkbox"/> Storage Tanks |
| <input type="checkbox"/> Grey Iron and Steel Foundry | <input type="checkbox"/> Indirect Heat Exchanger | |
- General Emission Unit, specify Diesel Engine

Fill out and provide the Emissions Unit Data Sheet(s) as Attachment L.

29. Check all applicable Air Pollution Control Device Sheets listed below:

- | | | |
|---|---|--|
| <input type="checkbox"/> Absorption Systems | <input type="checkbox"/> Baghouse | <input type="checkbox"/> Flare |
| <input type="checkbox"/> Adsorption Systems | <input type="checkbox"/> Condenser | <input type="checkbox"/> Mechanical Collector |
| <input type="checkbox"/> Afterburner | <input type="checkbox"/> Electrostatic Precipitator | <input type="checkbox"/> Wet Collecting System |

Other Collectors, specify N/A

Fill out and provide the Air Pollution Control Device Sheet(s) as Attachment M.

30. Provide all Supporting Emissions Calculations as Attachment N, or attach the calculations directly to the forms listed in Items 28 through 31.

31. Monitoring, Recordkeeping, Reporting and Testing Plans. Attach proposed monitoring, recordkeeping, reporting and testing plans in order to demonstrate compliance with the proposed emissions limits and operating parameters in this permit application. Provide this information as Attachment O.

➤ Please be aware that all permits must be practically enforceable whether or not the applicant chooses to propose such measures. Additionally, the DAQ may not be able to accept all measures proposed by the applicant. If none of these plans are proposed by the applicant, DAQ will develop such plans and include them in the permit.

32. Public Notice. At the time that the application is submitted, place a **Class I Legal Advertisement** in a newspaper of general circulation in the area where the source is or will be located (See 45CSR§13-8.3 through 45CSR§13-8.5 and **Example Legal Advertisement** for details). Please submit the **Affidavit of Publication** as Attachment P immediately upon receipt.

33. Business Confidentiality Claims. Does this application include confidential information (per 45CSR31)?

- YES NO

➤ If YES, identify each segment of information on each page that is submitted as confidential and provide justification for each segment claimed confidential, including the criteria under 45CSR§31-4.1, and in accordance with the DAQ's "Precautionary Notice – Claims of Confidentiality" guidance found in the **General Instructions** as Attachment Q.

Section III. Certification of Information

34. Authority/Delegation of Authority. Only required when someone other than the responsible official signs the application. Check applicable Authority Form below:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Authority of Corporation or Other Business Entity | <input type="checkbox"/> Authority of Partnership |
| <input type="checkbox"/> Authority of Governmental Agency | <input type="checkbox"/> Authority of Limited Partnership |

Submit completed and signed Authority Form as Attachment R.

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

35A. Certification of Information. To certify this permit application, a Responsible Official (per 45CSR§13-2.22 and 45CSR§30-2.28) or Authorized Representative shall check the appropriate box and sign below.

Certification of Truth, Accuracy, and Completeness

I, the undersigned Responsible Official / Authorized Representative, hereby certify that all information contained in this application and any supporting documents appended hereto, is true, accurate, and complete based on information and belief after reasonable inquiry I further agree to assume responsibility for the construction, modification and/or relocation and operation of the stationary source described herein in accordance with this application and any amendments thereto, as well as the Department of Environmental Protection, Division of Air Quality permit issued in accordance with this application, along with all applicable rules and regulations of the West Virginia Division of Air Quality and W.Va. Code § 22-5-1 et seq. (State Air Pollution Control Act). If the business or agency changes its Responsible Official or Authorized Representative, the Director of the Division of Air Quality will be notified in writing within 30 days of the official change.

Compliance Certification

Except for requirements identified in the Title V Application for which compliance is not achieved, I, the undersigned hereby certify that, based on information and belief formed after reasonable inquiry, all air contaminant sources identified in this application are in compliance with all applicable requirements.

SIGNATURE Phil Gardner DATE: 6/18/15
(Please use blue ink) (Please use blue ink)

35B. Printed name of signee: Phil Gardner

35C. Title: Plant Manager

35D. E-mail: pgardner@fpiwv.com

36E. Phone: 304-882-1181

36F. FAX: 304-882-3853

36A. Printed name of contact person (if different from above): Carri Coleman Tucker

36B. Title: EHS Consultant

36C. E-mail:
carri@obrienssafetyservices.com

36D. Phone: 304-834-8994

36E. FAX: 304-863-6145

PLEASE CHECK ALL APPLICABLE ATTACHMENTS INCLUDED WITH THIS PERMIT APPLICATION:

- | | |
|--|--|
| <input checked="" type="checkbox"/> Attachment A: Business Certificate | <input type="checkbox"/> Attachment K: Fugitive Emissions Data Summary Sheet |
| <input checked="" type="checkbox"/> Attachment B: Map(s) | <input checked="" type="checkbox"/> Attachment L: Emissions Unit Data Sheet(s) |
| <input checked="" type="checkbox"/> Attachment C: Installation and Start Up Schedule | <input type="checkbox"/> Attachment M: Air Pollution Control Device Sheet(s) |
| <input checked="" type="checkbox"/> Attachment D: Regulatory Discussion | <input checked="" type="checkbox"/> Attachment N: Supporting Emissions Calculations |
| <input checked="" type="checkbox"/> Attachment E: Plot Plan | <input checked="" type="checkbox"/> Attachment O: Monitoring/Recordkeeping/Reporting/Testing Plans |
| <input checked="" type="checkbox"/> Attachment F: Detailed Process Flow Diagram(s) | <input checked="" type="checkbox"/> Attachment P: Public Notice |
| <input checked="" type="checkbox"/> Attachment G: Process Description | <input type="checkbox"/> Attachment Q: Business Confidential Claims |
| <input checked="" type="checkbox"/> Attachment H: Material Safety Data Sheets (MSDS) | <input type="checkbox"/> Attachment R: Authority Forms |
| <input checked="" type="checkbox"/> Attachment I: Emission Units Table | <input checked="" type="checkbox"/> Attachment S: Title V Permit Revision Information |
| <input checked="" type="checkbox"/> Attachment J: Emission Points Data Summary Sheet | <input checked="" type="checkbox"/> Application Fee |

Please mail an original and three (3) copies of the complete permit application with the signature(s) to the DAQ, Permitting Section, at the address listed on the first page of this application. Please DO NOT fax permit applications.

FOR AGENCY USE ONLY - IF THIS IS A TITLE V SOURCE:

- Forward 1 copy of the application to the Title V Permitting Group and:
- For Title V Administrative Amendments:
- NSR permit writer should notify Title V permit writer of draft permit,
- For Title V Minor Modifications:
- Title V permit writer should send appropriate notification to EPA and affected states within 5 days of receipt,
- NSR permit writer should notify Title V permit writer of draft permit.
- For Title V Significant Modifications processed in parallel with NSR Permit revision:
- NSR permit writer should notify a Title V permit writer of draft permit,
- Public notice should reference both 45CSR13 and Title V permits,
- EPA has 45 day review period of a draft permit.

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

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

ISSUED TO:
**FELMAN PRODUCTION LLC
RR 3 BOX 127
LETART, WV 25253-9726**

BUSINESS REGISTRATION ACCOUNT NUMBER: 1006-0584

This certificate is issued on: **01/23/2013**

*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.*

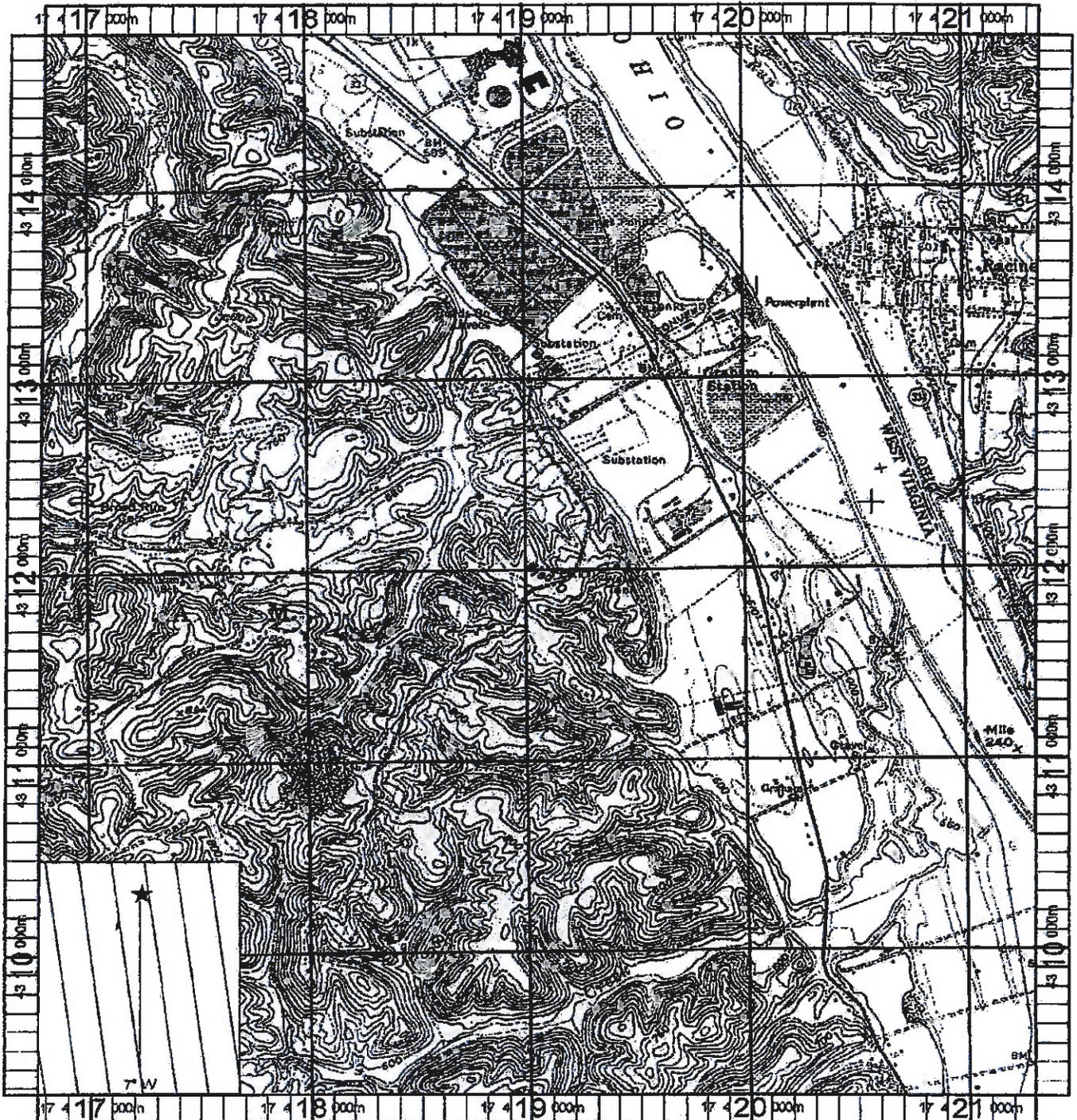
This certificate is not transferrable and must be displayed at the location for which issued.

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.

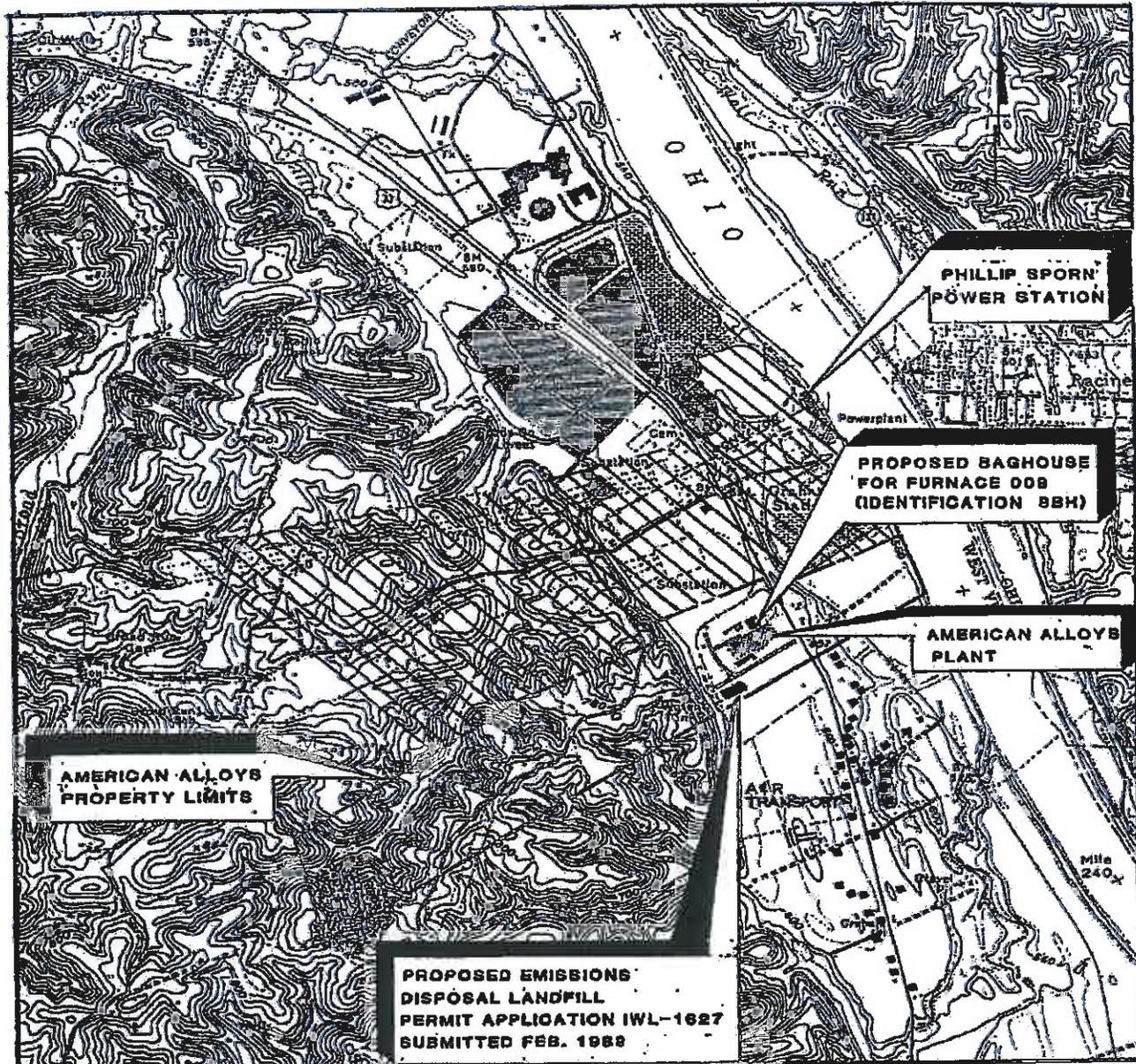
TRAVELING/STREET VENDORS: Must carry a copy of this certificate in every vehicle operated by them.
CONTRACTORS, DRILLING OPERATORS, TIMBER/LOGGING OPERATIONS: Must have a copy of this certificate displayed at every job site within West Virginia.

Attachment B
Map



Name: NEW HAVEN
Date: 6/10/2010
Scale: 1 Inch equals 2000 feet

Location: 17 419054 E 4312028 N



LEGEND

- SINGLE/MULTIPLE FAMILY RESIDENCE ■
- COMMERCIAL FACILITIES (IDENTIFICATION) ▣

REF: U.S.G.S. NEW HAVEN QUADRANGLE
 SCALE: 1" = 2000'

**AMERICAN ALLOYS INC.
 NEW HAVEN, WV.**

**PLANT LOCATION PLAN
 AREA LAND USE AND
 No. 8 FURNACE BAGHOUSE LOCATION**

**Attachment C
Installation and Startup Schedule**

Felman would like to install the temporary slag processing equipment in late July 2015 or early August 2015.

Start-up is scheduled to begin shortly after the completion of the installation procedures since these units are portable and only need to be unloaded, set-up, and fueled to become operational.

If the crusher is effective Felman will add it to its permanent permit.

**Attachment D
Regulatory Discussion**

The facility is required to comply with the requirements below based on their existing permit. Based on the proposed replacement in kind the emissions and production output will not change.

7.1.2. Total combined throughput of material into the Crusher shall not exceed 400 tons per hour nor 143,000 tons per year. Compliance with this limit shall be based on a 12 month rolling total. For the purposes of this permit a 12 month rolling total means the sum of material throughput at the end of any given month for the previous 12 months.

[45CSR13 - R13-3073T, 4.1.2.]

7.1.3. Total combined throughput of material into the Screen shall not exceed 400 tons per hour nor 143,000 tons per year. Compliance with this limit shall be based on a 12 month rolling total.

[45CSR13 - R13-3073T, 4.1.3.]

7.1.4. Of the annual throughput limits in 7.1.2 and 7.1.3, Silicomanganese shall account for no more than 23,000 tpy. Compliance with this limit shall be based on a 12 month rolling total.

[45CSR13 - R13-3073T, 4.1.4.]

7.1.5. Emissions from Crusher TMP-CR shall be controlled by use of water sprays.

[45CSR13 - R13-3073T, 4.1.5.]

7.1.6. Emissions from the following equipment shall be controlled by use of a partial enclosure: TMP-H, TMP-F, TMP-CR, TMP-H, and TMP-S.

[45CSR13 - R13-3073T, 4.1.6.]

7.1.7. Opacity from any process source operation shall not exceed 20% except for opacity which is less than 40% for a period or periods aggregating no more than 5 minutes in any 60 minute period.

[45CSR§§7-3.1 & 3.2, 45CSR13 - R13-3073T, 4.1.7.]

7.1.8. No person shall cause, suffer, allow or permit any manufacturing process or storage structure generating fugitive particulate matter to operate that is not equipped with a system, which may include, but not be limited to, process equipment design, control equipment design or operation and maintenance procedures, to minimize the emissions of fugitive particulate matter. To minimize means such system shall be installed, maintained and operated to ensure the lowest fugitive particulate matter emissions reasonably achievable.

[45CSR§7-5.1, 45CSR13 - R13-3073T, 4.1.8.]

7.1.9. The permittee shall comply with all applicable standards of 40 CFR 63 Subpart XXX including but not limited to Conditions 3.1.15. through 3.1.17 of this permit and the following:

No owner or operator shall cause to be discharged into the atmosphere from any new or reconstructed piece of equipment associated with crushing and screening exhaust gases containing particulate matter in excess of 50 mg/dscm (0.022 gr/dscf).

[45CSR13 - R13-3073T, 4.1.9., 40CFR§63.1652(e)(1), 45CSR34, 45CSR§30-5.1.c.]

7.1.10. Emissions from the crusher engine shall not exceed the following (in g/kW-hr):

	NOx	NMHC+NOx	CO	PM	NMHC
Crusher Engine	0.40	--	3.5	0.02	0.19

The Scania CV AB engine is a 2013 model year engine and is an Interim Tier 4 ALT NOx certified engine with 271 horsepower.

[45CSR13 - R13-3073T, 4.1.10., 40CFR§60.4204(b), 45CSR16, and 45CSR§30-5.1.c.]

The engine will be categorized as new engine located at a major source meeting requirements of Subpart IIII.

[40CFR60, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines]

7.1.11. Total fuel (diesel) consumption for the two engines listed in 7.1.10 of this permit shall not exceed 92,243 gallons per year. Compliance with this limit shall be based on a 12 month rolling total.

[45CSR13 - R13-3073T, 4.1.11.]

7.1.12. Operation and Maintenance of Air Pollution Control Equipment. The permittee shall, to the extent practicable, install, maintain, and operate all pollution control equipment listed in Section 1.0, under Temporary Equipment, and associated monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions, or comply with any more stringent limits set forth in this permit or as set forth by any State rule, Federal regulation, or alternative control plan approved by the Secretary.

[45CSR§13-5.11, 45CSR13 - R13-3073T, 4.1.12.]

7.1.13. The permittee shall use diesel fuel that meets the requirements of 40 CFR § 80.510(b).

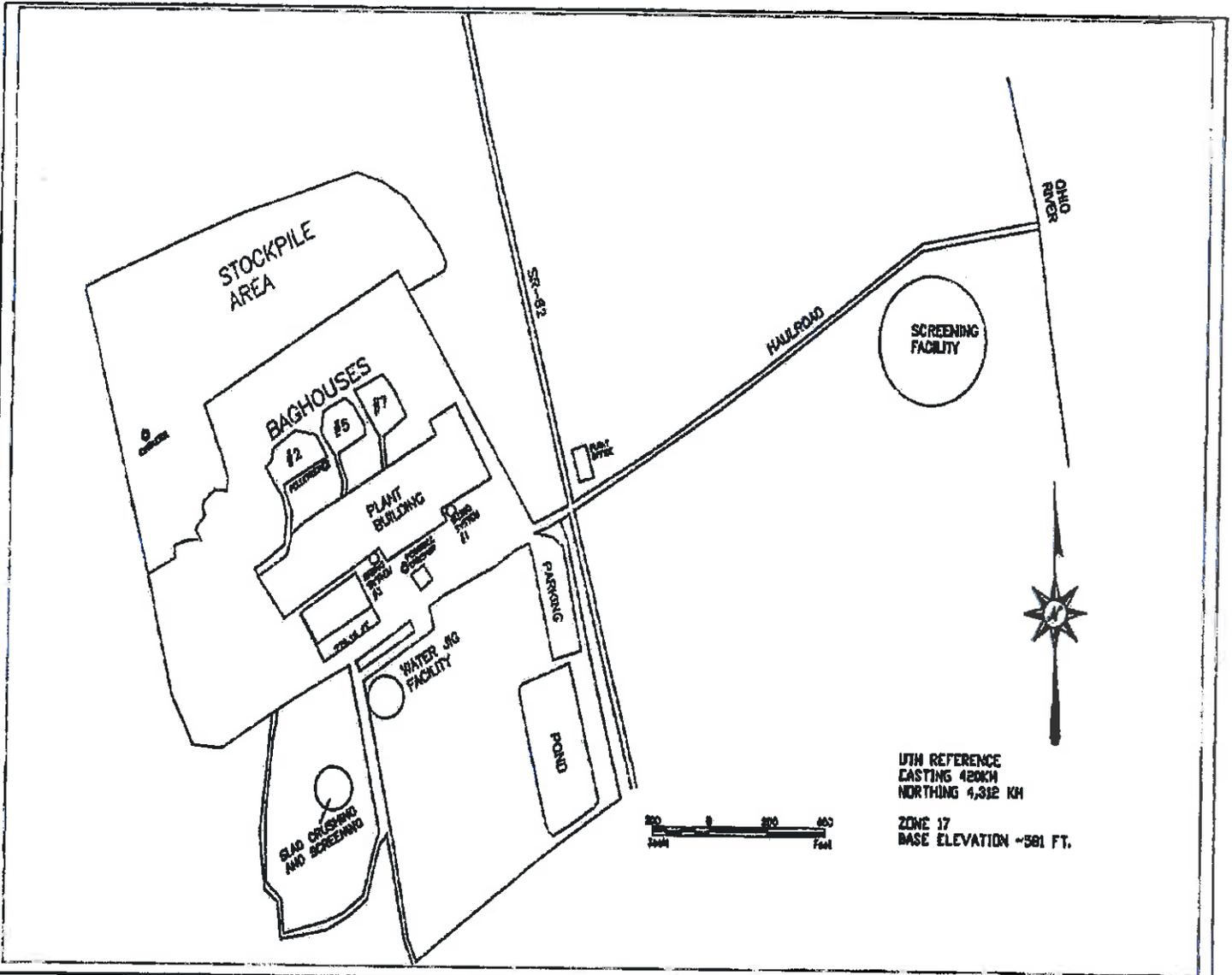
[40CFR§60.4207(b) and 45CSR16]

45CSR30, Requirements for Operating Permits

Felman is a major source under 45CSR30 and has an existing Title V permit. The changes requested in this temporary permit are going to exist for a finite time and then the temporary permit will expire and the revision will be placed with the Title V permit. Upon the next revision by request of the Felman or during the next renewal process on the Title V permit this equipment will be removed from the Title V permit.

[40CSR30]

Attachment E
Plot Plan



UTM REFERENCE
EASTING 4282M
NORTHING 4,312 KM
ZONE 17
BASE ELEVATION ~581 FT.



PLOT PLAN

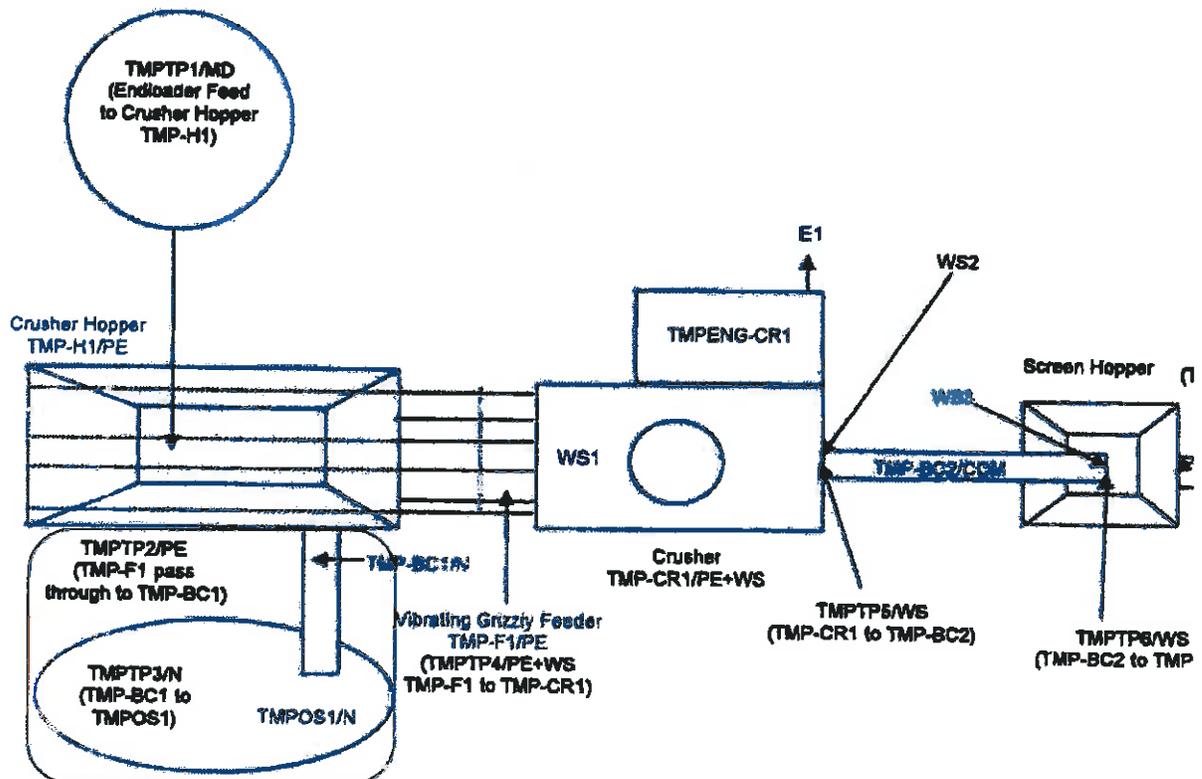
FELMAN PRODUCTION, INC.
LETART, WEST VIRGINIA

Attachment F

Detailed Process Flow Diagram(s)

- Stockpile TMP-OS1 consists of multiple piles of processed materials (already permitted under R13-2857D)
- Slag, remelt and product from existing product stockpiles to be loaded from end loader to TMP-H1 at TMPTP1/MD
- BC1, TMPTP2, and TMPTP3 will not be used in this application. The hopper dump chute will be closed.
- TMP-F1/PE feeds material into the crusher TMP-CR1/PE at TMPTP4/PE+WS1
- WS1 located at crusher feed inlet TMP-CR1/PE+WS
- TMPENG-CR1 (E1) is the Scania Tier 4 DC9 Engine
- TMPTP5/WS is the transfer point where material is loaded on the conveyor belt TMP-BC2/COM
- WS2 located at crusher discharge to conveyor
- TMP-BC2/COM loads material under partial enclosure to the screening system of existing Trakpactor 320R crusher/screener covered under permit R13-2857D
- WS3 located at end of conveyor belt
- TMPTP6/WS is the transfer point where material is loaded into the screener hopper of the existing Trakpactor
- () denotes descriptions to transfer points

Items in Red box - not using in this application



PREMIERTRAK 400

The Powerscreen® Premiertrak 400 range of high performance plants are designed for medium scale operators in quarrying, ³⁴ and mining applications. The range includes the Premiertrak R400, R400A and the Premiertrak R400 with hydraulic release. User mobility for a quick set-up time (typically under 30 minutes.) to setting adjustment for total control of product size and crusher to prevent damage by uncrushable objects.

Features & Benefits

- High output and excellent reduction capability
- Heavy duty wear resistant hydraulic folding feed hopper with wedge fixing system
- Excellent under crusher access for removal of wire with hydraulic raise lower product conveyor
- Stepped self-cleaning grizzly feeder with under feeder screen option
- Deep lines chute to reduce material blockages
- Aggressive crushing action with high swing jaw encouraging material entry into crushing chamber
- Hydraulic crusher setting adjustment
- Improved manganese liner retention, protects jaw supports on both swing & fixed jaws
- Patented hydraulic crusher overload system, ideal for applications with un-crushable material in feed, 200mm³. Patent Publication Numbers: FR 1494810; DE 603 24 905 1-08; GB 2387342; US 7341213; CN ZL03810686.8 (Premiertrak R400)
- Economical to operate with low fuel consumption due to highly efficient direct drive system
- Angle adjustable product conveyor
- Easy access powerunit canopy
- PLC control system with auto start facility
- Remote control via umbilical
- Dust suppression system
- Easily set up

Options

- Patented hydraulic deflector plate under crusher. Patent Publication Number: CN ZL03810686.8
- Side conveyor
- Single pole/twin pole magnet
- Radio remote control
- Belt weigher
- Electric refuelling pump
- Hydraulically driven water pump
- Wire mesh for underscreen
- Super tooth or multi tooth jaw
- Extended hopper

Hopper

Wear Resistant Feed Hopper
 Length: 4.9m (16' 1")
 Width: 2.4m (7' 11")
 Capacity: 10m³ (13yds³)



PREMIERTRAK 400: R400	400	R400
Weight (Est)	44 450kgs (97 995lbs)	44 750kgs (98 656lbs)
Transport width	2.8m (9' 2")	2.8m (9' 2")
Transport length	15.2m (49' 10")	15.2m (49' 10")
Transport height	3.4m (11' 1")	3.4m (11' 1")
Working width	2.8m (9' 2")	2.8m (9' 2")
(with side conveyor)	4.3m (14' 1")	4.3m (14' 1")
Working length	14.9m (49')	14.9m (49')
Working height	4.1m (13' 5")	4.1m (13' 5")



Side Conveyor (option)

Width: 600mm (23.6")
 Discharge height: 2m (6.5')

Feed Conveyor

Vibrating pan and grizzly feeder
 Feeder length: 4.08m (13' 5")
 Feeder width: 1.06m (3' 6")
 Grizzly length: 2.12m (7')

*Depends on application
 Engines are available that are certified to US EPA and EU emissions levels for each country. Talk to your dealer about available engine options for the 400 range or the R400 range.



Attachment G
Process Description

Felman Production, LLC proposes to install a Trakpactor 400R temporary jaw crusher. This system will operate briefly to determine if additional crushing is required to process SiMn. Once a determination is made the crusher will/will not be permitted into the permanent facility.

The temporary crushing unit will have the following process flow:

Endloader will load remelt, slag, or silicomanganese to the hopper/feeder (TMP-H1, TMP-F1) via (TMPTP1/MD).

The feeder (TMP-F1/PE) will transfer material (TMPTP4/PE) + (WS1) to the crusher/hopper to the R400 Jaw Crusher (TMP-CR1/PE) + (WS).

From the R400 Jaw Crusher material will pass to (TMP-BC2/COM) via (TMPTP5/WS2) and it will then be deposited in the Trakpactor 320R screen hopper via (TMPTP6/WS3).

Attachment H
Material Safety Data Sheets (MSDS) for Silicomanganese

Silico Manganese



SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Silico Manganese
CAS Number: SiMn 12743-28-1
Synonyms: n/a
Use/Description: Silico Manganese metallurgical grade metal

Company Identification: Felman
Production, LLC 4442
Graham Station Road
Letart, WV 25253

24 Hour Contact – CHEMTREC 1-800-424-9300
Safety Officer [8:00 am – 5:00 pm]: 1-(304) 882-1181

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

SiMn PRODUCTS AS SOLD BY FELMAN PRODUCTION, L.L.C. ARE NOT HAZARDOUS PER OSHA GHS 29 CFR 1910, 1915, 1926. However, individual customer processes, (such as welding, sawing, brazing, grinding, abrasive blasting, and machining) may result in the formation of fumes, dust (combustible or otherwise), and/or particulate that may present the following hazards:

OSHA Hazards: Carcinogen Skin Sensitizer
Target Organ Effect – Lungs

GHS Classification: Carcinogenicity (Category 2)
Skin Sensitization (Category 1)
Specific Target Organ Toxicity-Repeated Exposure (Category 1)

Pictogram(s):



Signal Word: Danger

Hazard Statement(s)

H317: Dust/fumes may cause an allergic skin reaction.
H351: Dust/fumes suspected of causing cancer via inhalation.
H372: Inhalation of dust/fumes causes damage to respiratory tract through prolonged or repeated exposure

Silico Manganese

Hazard Statement(s)

H317: Dust/fumes may cause an allergic skin reaction.

H351: Dust/fumes suspected of causing cancer via inhalation.

H372: Inhalation of dust/fumes causes damage to respiratory tract through prolonged or repeated exposure

Precautionary Statement(s)

P202: Do not handle until all safety precautions have been read and understood.

P261: Avoid breathing dust/fumes.

P281: Use personal protective equipment as required.

P308+P313: If exposed or concerned: Get medical advice/attention.

Potential Health Effects

Eye Contact

Dusts or particulates may cause mechanical irritation including pain, tearing, and redness. Scratching of the cornea can occur if eye is rubbed. Fumes may be irritating. Contact with the heated material may cause thermal burns.

Skin Contact

Dusts or particulates may cause mechanical irritation due to abrasion. Coated Silico Manganese may cause skin irritation in sensitive individuals (see Section 16 for additional information.) Some components in this product are capable of causing an allergic reaction, possibly resulting in burning, itching and skin eruptions. Contact with heated material may cause thermal burns.

Inhalation

Dusts may cause irritation of the nose, throat, and lungs. Excessive inhalation of metallic fumes and dusts may result in metal fume fever, an influenza-like illness. It is characterized by a sweet or metallic taste in the mouth, accompanied by dryness and irritation of the throat, cough, shortness of breath, pulmonary edema, general malaise, weakness, fatigue, muscle and joint pains, blurred vision, fever and chills. Typical symptoms last from 12 to 48 hours.

Ingestion

Not expected to be acutely toxic via ingestion based on the physical and chemical properties of the product. Swallowing of excessive amounts of the dust may cause irritation, nausea, and diarrhea.

Potential Fire and Explosion Hazards

Under normal conditions, SiMn products do not present fire or explosion hazards, and dust generated by handling SiMn products is oxidized and not combustible. Processing of SiMn product by some individual customers may produce potentially combustible dust that may represent a fire or explosion hazard.

Chronic or Special Toxic Effects

Repeated exposure to fine dusts may inflame the nasal mucosa and cause changes to the lung. In addition, a red-brown pigmentation of the eye and/or skin may occur. Welding fumes have been associated with adverse health effects. Contains components that may cause cancer or reproductive effects. The following components are listed by NTP, OSHA, or IARC as carcinogens: manganese. See Section 11, for additional, specific information on effects noted above.

Target Organs

Overexposure to specific components of this product that are generated in dusts or fumes may cause adverse effects to the following organs or systems: eyes, skin, liver, kidney, central nervous system, cardiovascular system, respiratory system,.

Medical Conditions Aggravated by Exposure

Diseases of the skin such as eczema may be aggravated by exposure. Also, disorders of the respiratory system including asthma, bronchitis, and emphysema. Long-term inhalation exposure to agents that cause pneumoconiosis (e.g. dust) may act synergistically with inhalation of oxide fumes or dusts of this product.

Silico Manganese

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No.	% Weight	Exposure Limits			
			ACGIH TLV (mg/m3)		OSHA PEL (mg/m3)	
Manganese(Mn)	7439-96-5	65 - 68	.2	Elemental Mn	5	Fume (Ceiling)
Silicon (Si)	7440-21-3	12.5 - 21.0	10	Dust/Fume	15	Dust / Fume
Carbon (C)	7440-44-0	0 - 3	-	Not Established	-	Not Established
Phosphorus (P)	7723-14-0	0.0 - .04	.1	Phosphorus	.1	Phosphorus
Balance Iron (Fe)	7440-89-6	Balance	5	Oxide/Dust/Fume	10	Oxide/Dust/Fume

NOTE: No permissible exposure limits (PEL) or threshold limit values (TLV) exist for Silico Manganese over all. The above listing is a summary of elements used in normal Felman Silico Manganese Products. Various grades of Silico Manganese will contain different combinations of these elements and/or trace materials. Exact specifications for specific products may be available upon request.

4. FIRST AID MEASURES

Eye Contact- In case of overexposure to dusts or fumes, immediately flush eyes with plenty of water for at least 15 minutes occasionally lifting the eye lids. Get medical attention if irritation persists. Thermal burns should be treated as medical emergencies.

Skin Contact - In case of overexposure to dusts or particulates, wash with soap and plenty of water. Get medical attention if irritation develops or persists. If thermal burn occurs, flush area with cold water and get immediate medical attention.

Inhalation - In case of overexposure to dusts or fumes, remove to fresh air. Get immediate medical attention if symptoms described in this SDS develop.

Ingestion - Not considered an ingestion hazard. However, if excessive amounts of dust or particulates are swallowed, treat symptomatically and supportively. Get medical attention.

Notes to Physician - Inhalation of metal fume or metal oxides may produce an acute febrile state, with cough, chills, weakness, and general malaise, nausea, vomiting, muscle cramps, and remarkable leukocytosis. Treatment is symptomatic, and condition is self limited in 24-48 hours. Chronic exposure to dusts may result in pneumoconiosis of mixed type.

5. FIRE FIGHTING MEASURES

Flash Point (Method) - Not applicable

Flammable Limits (% volume in air) - Not applicable

Auto ignition Temperature - Not applicable

When suspended in air, these alloys in fine size can ignite, propagate flame or cause a mild explosion. This is a Class D fire which requires dry chemicals, dry sand or powder to smother the fire. Nitrogen blanket will not extinguish a manganese fire.

Extinguishing Media - For molten metal, use dry powder or sand. For Silico Manganese dust use or dry sand, water, foam, argon or nitrogen.

Special Fire Fighting Procedures - Do not use water on molten metal. Do not use Carbon Dioxide (CO₂). Firefighters should not enter confined spaces without wearing NIOSH/MSHA approved positive pressure breathing apparatus (SCBA) with full face mask and full protective equipment.

Unusual Fire or Explosion Hazards - Silico Manganese products do not present fire or explosion hazards under normal conditions. Any non-oxidized fine metal particles/ dust generated by grinding, sawing, abrasive blasting, or individual customer processes may produce materials that the customer should test for combustibility and other hazards in accordance with applicable regulations. High concentrations of combustible metallic fines in the air may present an explosion hazard.

Silico Manganese

6. ACCIDENTAL RELEASE MEASURES

Precautions if Material is Spilled or Released - Emergency response is unlikely unless in the form of combustible dust. Avoid inhalation, eye, or skin contact of dusts by using appropriate precautions outlined in this SDS (see section 8). Fine turnings and small chips should be swept or vacuumed and placed into appropriate disposable containers. Keep fine dust or powder away from sources of ignition. Scrap should be reclaimed for recycling. Prevent materials from entering drains, sewers, or waterways.

Fire and Explosion Hazards - Some customer processes may generate combustible dust that may require specific precautions when cleaning spills or releases of dust.

Environmental Precautions - Some grades of Silico Manganese may contain reportable quantities of alloying elements. See Section 15 for additional information.

Waste Disposal Methods - Dispose used or unused product in accordance with applicable Federal, State, and Local regulations. Please recycle.

7. HANDLING AND STORAGE

Storage Temperatures - Stable under normal temperatures and pressures.

Precautions to be Taken in Handling and Storing - Store away from strong oxidizers. Dusts and/or powders, alone, or combined with process specific fluids, may form explosive mixtures with air. Applicable Federal, state and local laws and regulations may require testing dust generated from processing of Silico Manganese products to determine if it represents a fire or explosion hazard and to determine appropriate protection methods. Avoid breathing dusts or fumes.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Operations with potential for generating high concentrations of airborne particulates or fumes should be evaluated and controlled as necessary.

Eye Protection - Use safety glasses. Dust resistant safety goggles are recommended under circumstances where particles could cause mechanical injury such as grinding or cutting. Face shield should be used when welding or cutting.

Skin - Appropriate protective gloves should be worn as necessary. Good personal hygiene practices should be followed including cleansing exposed skin several times daily with soap and water, and laundering or dry cleaning soiled work clothing.

Respiratory Protection - NIOSH/MSHA approved dust/fume/mist respirator should be used to avoid excessive exposure. See Section 3 for component material information exposure limits. If such concentrations are sufficiently high that this respirator is inadequate, or high enough to cause oxygen deficiency, use a positive pressure self-contained breathing apparatus (SCBA). Follow all applicable respirator use, fitting, and training standards and regulations.

Ventilation - Provide general and/or local exhaust ventilation to control airborne levels of dust or fumes below exposure limits.

Exposure Guidelines - No permissible exposure limits (PEL) or threshold limit values (TLV) exist for Silico Manganese. See Section 3 for component materials. Various grades of Silico Manganese will contain different combinations of these elements. Trace elements may also be present in minute amounts.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor - Silver grey to grey black with metallic luster.

Boiling Point - Not applicable

Melting Point - Approximately 2800 °F

pH - Not applicable

Specific Gravity (at 15.6°C) - Not applicable

Density (at 15.6 °C) - Not applicable

Silico Manganese

Vapor Pressure - Not applicable

Vapor Density (air = 1) - Not applicable

% Volatile, by Volume - Not applicable

Solubility in Water - Insoluble.

Evaporation Rate (Butyl Acetate = 1) - Not applicable

Other Physical and Chemical Data - Product is in lump form and may contain less than 10% under bottom specified size.

10. STABILITY AND REACTIVITY

Stability - Stable

Reactivity: May react slightly with water to form small amounts of phosphine, arsine and hydrogen.

Conditions to Avoid - Silico Manganese at temperatures above the melting point may liberate fumes containing oxides of iron and alloying elements. Avoid generation of airborne fume.

Hazardous Polymerization - Will not occur.

Incompatibility (Materials to Avoid) - Reacts with strong acids to form hydrogen gas. Do not store near strong oxidizers.

Hazardous Decomposition Products - Metallic fumes may be produced during welding, burning, grinding, and possibly machining or any situation with the potential for thermal decomposition. Refer to ANSI Z49.1

11. TOXICOLOGICAL INFORMATION

The primary component of this product is iron. Long-term exposure to iron dusts or fumes can result in a condition called siderosis which is considered to be a benign pneumoconiosis. Symptoms may include chronic bronchitis, emphysema, and shortness of breath upon exertion. Penetration of iron particles in the skin or eye may cause an exogenous or ocular siderosis which may be characterized by a red-brown pigmentation of the affected area. Ingestion overexposures to iron may affect the gastrointestinal, nervous, and hematopoietic system and the liver. Iron and Silico Manganese founding, but not iron or iron oxide, has been listed as carcinogenic (Group 1) by IARC.

When this product is welded, fumes are generated. Welding fumes may be different in composition from the original welding product, with the chief component being ordinary oxides of the metal being welded. Chronic health effects (including cancer) have been associated with the fumes and dusts of individual component metals (see above), and welding fumes as a general category have been listed by IARC as a carcinogen (Group 2B). There is also limited evidence that welding fumes may cause adverse reproductive and fetal effects. Evidence is stronger where welding materials contain known reproductive toxins, e.g., lead which may be present in the coating material of this product.

Breathing fumes or dusts of this product may result in metal fume fever, which is an illness produced by inhaling metal oxides. These oxides are produced by heating various metals including cadmium, zinc, magnesium, copper, antimony, nickel, cobalt, manganese, tin, lead, beryllium, silver, chromium, aluminum, selenium, iron, and arsenic. The most common agents involved are zinc and copper.

This product may contain small amounts of manganese. Prolonged exposure to manganese dusts or fumes is associated with "manganism", a Parkinson-like syndrome characterized by a variety of neurological symptoms including muscle spasms, gait disturbances, tremors, and psychoses.

12. ECOLOGICAL INFORMATION

Aquatic Ecotoxicological Data - No specific information available on this product.

Environmental Fate Data - No specific information available on this product.

Silico Manganese

13. DISPOSAL CONSIDERATIONS

Recovery and reuse, rather than disposal, should be the ultimate goal of handling efforts. Dispose in accordance with federal, state, and local health and environmental regulations. Prevent materials from entering drains, sewers, or waterways.

14. TRANSPORT INFORMATION

DOT Proper Shipping Name - Not regulated
DOT Hazard Classification - Not regulated
UN/NA Number - Not applicable
DOT Packing Group - Not applicable
Labeling Requirements - Not applicable
Placards - Not applicable
DOT Hazardous Substance - Not applicable
DOT Marine Pollutant - Not applicable

15. REGULATORY INFORMATION

This product is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. However, dusts and fumes from this product may be combustible or hazardous and require protection to comply with applicable Federal, state and local laws and regulations.

California Proposition 65: None

Massachusetts Substance List: Manganese, Phosphorus, Silicon

Pennsylvania Hazardous Substance List: Manganese, Phosphorus, Silicon

New Jersey Hazardous Substance List: Manganese, Phosphorus, Silicon

Toxic Substances Control Act (TSCA)

Components of this product are listed on the TSCA Inventory.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)

Silico Manganese is not reportable, however, it contains hazardous substances that may be reportable if released in pieces with diameters less than or equal to 0.004 inches (RQ marked with a "***").

<u>Chemical Name</u>	<u>Reportable Quantity (in lb)</u>
None	

Superfund Amendments and Reauthorization Act of 1986 (SARA), Title III

SECTION 311/312 HAZARD CATEGORIES: Immediate Health Effect, Delayed Health Effect

This product contains the following EPCRA Section 313 chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right – To – Know Act of 1986 (40 CFR 372):

SECTION 313 REPORTABLE INGREDIENTS:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Concentration (% by weight)</u>	<u>Reportable</u>
Manganese	7439-96-5	0.2-2 Some grades up to 12.5%	Yes – Greater than 1%
Phosphorus	7723-14-0	<0.9	No – Less than 1%

Concentrations based on analytical data and process knowledge of typical products distributed by the facility.

Silico Manganese

16. OTHER INFORMATION

This SDS covers Felman Production, L.L.C. product as delivered from the Felman Production, L.L.C. facility, but does not include chemicals that may be applied by subsequent handlers and/or distributors of this product. This could include a variety of materials including oils, paints, galvanization, etc. that are not included in this SDS. Additionally, specialty orders may require application of coating material not listed in this SDS. SDSs for any Felman Production, L.L.C.-applied specialty coating will be provided separately. During welding, precautions should be taken for airborne contaminants that may originate from components of the welding rod. Arc or spark generated when welding or burning could be a source of ignition for combustible and/or flammable materials. The information in this Safety Data Sheet (SDS) was obtained from sources which we believe are reliable; however, the information is provided without any representation or warranty, expressed or implied, regarding the accuracy or correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with the handling, storage, use, or disposal of this product.

Attachment I

Emission Units Table

(includes all emission units and air pollution control devices
that will be part of this permit application review, regardless of permitting status)

Emission Unit ID ¹	Emission Point ID ²	Emission Unit Description	Year Installed/ Modified	Design Capacity	Type ³ and Date of Change	Control Device ⁴
TMP-H1	TMP-H1	CRUSHER HOPPER	2013	400 TPH	New	PE
TMP-F1	TMP-F1	VIBRATING GRIZZLY FEEDER	2013	400 TPH	New	PE
TMP-CR1	TMP-CR1	JAW CRUSHER	2013	400 TPH	New	PE+WS
TMP-BC2	TMP-BC2	BELT CONVEYOR 2	2013	400 TPH	New	COM
TMPEN G-CR1	E1	2013 SCANIA DC9, TIER 4 ENGINE FOR CRUSHER	2013	271 HP	NEW	N
TMPTP1	TMPTP1					
TMPTP4	TMPTP4					
TMPTP5	TMPTP5					
TMPTP6	TMPTP6					

¹ For Emission Units (or Sources) use the following numbering system: 1S, 2S, 3S, ... or other appropriate designation.

² For Emission Points use the following numbering system: 1E, 2E, 3E, ... or other appropriate designation.

³ New, modification, removal

⁴ For Control Devices use the following numbering system: 1C, 2C, 3C, ... or other appropriate designation.

**Attachment J
EMISSION POINTS DATA SUMMARY SHEET**

Table 1: Emissions Data

Emission Point ID No. (Must match Emission Units Table & Plot Plan)	Emission Point Type ¹	Emission Unit Vented Through This Point (Must match Emission Units Table & Plot Plan)		Air Pollution Control Device (Must match Emission Units Table & Plot Plan)		Vent Time for Emission Unit (chemical processes only)		All Regulated Pollutants - Chemical Name/CAS ³ (Speciate VOCs & HAPS)	Maximum Potential Uncontrolled Emissions ⁴		Maximum Potential Controlled Emissions ⁵		Emission Form or Phase (At exit conditions, Solid, Liquid or Gas/Vapor)	Est. Method Used ⁶	Emission Concentration ⁷ (ppmv or mg/m ³)
		ID No.	Source	ID No.	Device Type	Short Term ² (hr/yr)	Max (hr/yr)		lb/hr	ton/yr	lb/hr	ton/yr			
TMP-F1	n/a	TMP-F1	Trans. Point	PE	PE	n/a	n/a	PM PM10 PM2.5	n/a	n/a	n/a	n/a	Solid	EE	n/a
BC2	n/a	BC2	Conveyo	FE+BH	FE+BH	n/a	n/a	PM PM10 PM2.5	n/a	n/a	n/a	n/a	Solid	EE	n/a
TMP-CR1	n/a	TMP-CR1	Crush.	PE+WS	PART. ENCL. WATER SPRAY	n/a	n/a	PM PM10 PM2.5	200 94.59 29.73	35.75 16.91 5.31	40 18.92 5.95	7.15 3.38 1.06	Solid	EE	n/a
TMPENG-ENG1	Ver. Stack	TMPENG-ENG1	Tier 4 Diesel	n/a	n/a	n/a	n/a	PM, PM10, & 2.5 NMHC+NOx CO SOx VOC HAP's	0.01 0.01 0.31 0.54 0.68 0.0072	0.02 0.02 0.68 1.18 1.49 0.0157	0.01 0.01 0.31 0.54 0.68 0.0072	0.02 0.02 0.68 1.18 1.49 0.0157	Solid	EE	n/a
TMPPT1-6	NA	TMPPT1-6	Trans. Point	Various	Various	n/a	n/a	PM PM10 PM2.5	40.80 19.30 6.06	7.29 3.45 1.08	18.36 8.68 2.73	3.28 1.55 .49	Solid	AP-42	n/a

The EMISSION POINTS DATA SUMMARY SHEET provides a summation of emissions by emission unit. Note that uncaptured process emissions are not typically considered to be fugitive and must be accounted for on the appropriate EMISSIONS UNIT DATA SHEET and on the EMISSION POINTS DATA SUMMARY SHEET. Please note that total emissions from the source are equal to all vented emissions, all fugitive emissions, plus all other emissions (e.g. uncaptured emissions). Please complete the FUGITIVE EMISSIONS DATA SUMMARY SHEET for fugitive emission activities.

¹ Please add descriptors such as upward vertical stack, downward vertical stack, horizontal stack, relief vent, rain cap, etc.

² Indicate by "C" if venting is continuous. Otherwise, specify the average short-term venting rate with units, for intermittent venting (e.g., 15 min/hr). Indicate as many rates as needed to clarify frequency of venting (e.g., 5 min/day, 2 days/wk).

³ List all regulated air pollutants. Speciate VOCs, including all HAPs. Follow chemical name with Chemical Abstracts Service (CAS) number. LIST Acids, CO, CS₂, VOCs, H₂S, Inorganics, Lead, Organics, O₃, NO, NO₂, SO₂, SO_x, all applicable Greenhouse Gases (including CO₂ and methane), etc. DO NOT LIST H₂, H₂O, N₂, O₂, and Noble Gases.

⁴ Give maximum potential emission rate with no control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g. 5 lb VOC/20 minute batch).

⁵ Give maximum potential emission rate with proposed control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g. 5 lb VOC/20 minute batch).

⁶ Indicate method used to determine emission rate as follows: MB = material balance; ST = stack test (give date of test); EE = engineering estimate; O = other (specify).

7 Provide for all pollutant emissions. Typically, the units of parts per million by volume (ppmv) are used. If the emission is a mineral acid (sulfuric, nitric, hydrochloric or phosphoric) use units of milligram per dry cubic meter (mg/m³) at standard conditions (68 °F and 29.92 inches Hg) (see 45CSR7). If the pollutant is SO₂, use units of ppmv (See 45CSR10).

**Attachment J
EMISSION POINTS DATA SUMMARY SHEET**

Table 2: Release Parameter Data

Emission Point ID No. (Must match Emission Units Table)	Inner Diameter (ft.)	Exit Gas		Emission Point Elevation (ft)			UTM Coordinates (km)	
		Temp. (°F)	Volumetric Flow ¹ (acfm) at operating conditions	Velocity (fps)	Ground Level (Height above mean sea level)	Stack Height ² (Release height of emissions above ground level)	Northing	Easting
TMP-CR1	n/a	ambient	n/a	n/a	n/a	n/a	4312.49	419.76
TMPENG-ENG1	Ver. Stack	ambient	n/a	n/a	n/a	590	4312.49	419.76
TMPTP1-6	n/a	ambient	n/a	n/a	n/a	n/a	4312.49	419.76

¹ Give at operating conditions. Include inerts.

² Release height of emissions above ground level.

7. Provide a diagram and/or schematic that shows the proposed process of the operation or plant. The diagram and/or schematic is to show all sources, components and facets of the operation or plant in an understandable line sequence of the operation. The diagram should include all the equipment involved in the operation; such as conveyors, transfer points, stockpiles, crushers, facilities, vents, screens, truck dump bins, truck, barge and railcar loading and unloading, etc. Appropriate sizing and specifications of equipment should be included in the diagram. The diagram shall logical follow the entire process load-in to load-out.

8. Roads	Paved Miles of Road	Unpaved Miles of Road	Watered		Other Control (Specify)
			Miles	Frequency	
Plant Yard					
Access Roads					

9. Vehicle Type	Vehicle Type	Mean Vehicle Speed in mph	Mean Vehicle Weight in Tons		Number of Wheels	Distance Traveled per Round Trip	
			Empty	Full		Paved Feet or Miles	Unpaved Feet or Miles
	Raw Aggregate						
	Loaders						
	Product Trucks						
	Other						
	Other						
	Other						
	Other						

10. Describe all proposed materials storage facilities associated with the Emission Units listed.
 THERE WILL BE STORAGE PILES.
 They were previously permitted under permit R13-2857D.

Storage Activity

ID of Emission Unit					
Type Storage					
Material Stored					
Typical Moisture Content (%)					
Avg % of material passing through 200 mesh sieve					
Maximum Total Yearly Throughput in storage (tons)					
Maximum Stockpile Base Area (ft²)					
Maximum Stockpile height (ft)					
Dust control method applied to storage					
Method of material load-in to bin or stockpile					
Dust control method applied during load-in					
Method of material load-out to bin or stockpile					
Dust control method applied during load-out					

Storage piles	Estimated Annual Tons	Turnover Rate (Ton/Month)	Wetted as Piled	Number of Sides Enclosed	Other Dust Control	Loading Method (Loader, Conveyor) IN/OUT
Coarse: over 1"						
Fine: 1" to ½"						
½" and less						
MFG. Sand						
Other, specify						

Conveying and Transfer

Describe the conveying system including transfer points associated with proposed Emission Units (crushers, etc...).

The following shows the new portion of the Crusher #1 assembly.

End loaders will bring silicomanganese slag up the ramp, dump into the new hopper, which will be hooded/partially enclosed. Product will be crushed and then dumped into the Trakpactor 320R which is covered under R13-2857D.

Describe any methods of emission control to be used with these proposed conveying systems:

partical enclosures and water spray

Crushing and Screening

ID of Emission Unit	TMP-CR1					
Type Crusher or Screen						
Material Sized	SILICOMN.					
Material Sized Throughput:						
Tons/hr	400					
Tons/yr	143000					
Material sized from/to	3"					
Typical moisture content as crushed or screened (%)	.5-5					
Dust control methods applied	FE - Full Encl					
Stack Parameters:						
Height (ft)						
Diameter (ft)						
Volume (ACFM)						
Temp (°F)						
Maximum operating schedule:						
Hour/day	24	24				
Day/year	365	365				
Hour/year	8760	8760				
Approximate Percentage of Operation from:						
Jan – Mar	25	25				
April – June	25	25				
July – Sept	25	25				
Oct – Dec	25	25				
Maximum Particulate Emissions:						
LB/HR						
Ton/Year						

List emission sources with request information:

ID of Emission Unit	Type of Emission Unit and Use	Operating Schedule		Max. Amount of Stone Input to Emission (lb/hr)	Crushed or Screened From/To (size)	Date of Emission Unit was Manufacture
		Actual (hrs/yr)	Design (hrs/yr)			
	CRUSHER	8760	8760			2013

List emission sources with request information:

ID of Emission Unit	Maximum expected emissions from Emission Unit without Air Pollution Control Equipment				
	PM ₁₀ (lbs/hr)	SO ₂ (lbs/hr)	CO (lbs/hr)	NO _x (lbs/hr)	VOC (lbs/hr)
TMP-CR1	.01	.54	.31	.01	.68

ID of Emission Unit	Maximum expected emissions from Emission Unit without Air Pollution Control Equipment				
	PM ₁₀ (tons/yr)	SO ₂ (tons/yr)	CO (tons/yr)	NO _x (tons/yr)	VOC (tons/yr)
TMP-CR1	.02	1.18	.68	.02	1.49

Please fill out a separate Air Pollution Control Device Sheet for each Emission Unit equipped with an air pollution control system.

What type of stone will be quarried at this site?

NA

How will it be quarried?

- Sawing
- Blasting
- Other, Specify:

If blasting is checked, complete the following:

- Frequency of blasting:
- What method of air pollution control will be employed during drilling and blasting?

**Attachment N
Supporting Emissions Calculations**

Emissions from the operations covered under permit application shall not exceed the following based on manufacturer's specifications.

	PM		PM10		PM2.5	
	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy
Crushers	40	7.15	18.92	3.38	5.95	1.06
Transfer Points (4)	18.36	3.28	8.68	1.55	2.73	0.49
Engines	0.01	0.02	0.01	0.02	0.01	0.02
Total	58.37	10.45	27.61	4.95	8.69	1.57

Engines	SO2		NOx		CO		VOC	
	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy
Scania Diesel	0.54	1.18	0.01	0.02	0.31	0.68	0.68	1.49

NEW HAVEN PLANT
YEARLY EMISSIONS INCREASE - POUNDS PER HOUR

Air Pollutants	Current	Proposed Increase / Decrease
	Totals PPH	Totals PPH

UPDATED EQUIPMENT		
Proposed	Crushing & Screening	Transfer Points
Totals PPH	Totals PPH	Totals PPH

Criteria Air Pollutants

Total Particulate Matter	-	58.37
PM-10	-	27.61
PM-2.5	-	8.69
Sulfur Dioxide	-	-
Nitrogen Oxides	-	-
Carbon Monoxide	-	-
VOCs	-	-

58.37	40.01	18.36
27.61	18.93	8.68
8.69	5.96	2.73
0.54	0.54	-
0.01	0.01	-
0.31	0.31	-
0.68	0.68	-

Hazardous Air Pollutants

Formaldehyde	0.00000	-
Benzene	0.00000	-
Toluene	0.00000	-
Xylene	0.00000	-
Naphthalene	0.00000	-
1,3-Butadiene	0.00000	-
Acetaldehyde	0.00000	-
Acrolein	0.00000	-
Total HAPs	0.00000	-

0.00220	0.00220	-
0.00180	0.00180	-
0.00080	0.00080	-
0.00050	0.00050	-
0.00020	0.00020	-
0.00010	0.00010	-
0.00140	0.00140	-
0.00020	0.00020	-
0.00720	0.00720	-

Green house Gases

CO2	0.00	-
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-	-	-
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Notes:

1. HAP Metals are included in total PM. HAP VOCs are included in the VOC total.
2. PM-10 is included in the total particulate matter and is not double counted in total regulated air emissions.
3. Values less than 1e-5 are shown as negligible.

NEW HAVEN PLANT
YEARLY EMISSIONS INCREASE - TONS PER YEAR

Air Pollutants	Current	Proposed Increase / Decrease
	Totals TPY	Totals TPY

Criteria Air Pollutants

Total Particulate Matter	-	10.45
PM-10	-	4.95
PM-2.5	-	1.57
Sulfur Dioxide	-	-
Nitrogen Oxides	-	-
Carbon Monoxide	-	-
VOCs	-	-

Hazardous Air Pollutants

Formaldehyde	0.00000	-
Benzene	0.00000	-
Toluene	0.00000	-
Xylene	0.00000	-
Naphthalene	0.00000	-
1,3-Butadiene	0.00000	-
Acetaldehyde	0.00000	-
Acrolein	0.00000	-
Total HAPs	0.00000	-

Green house Gases

CO2	0.00	-
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UPDATED EQUIPMENT

Proposed	Crusher	Transfer Points
Totals TPY	Totals TPY	Totals TPY

10.45	7.17	3.28
4.95	3.40	1.55
1.57	1.08	0.49
1.18	1.18	0.00
0.02	0.02	0.00
0.68	0.68	0.00
1.49	1.49	0.00

0.004800	0.004800	0.00
0.003900	0.003900	0.00
0.001800	0.001800	0.00
0.001100	0.001100	0.00
0.000400	0.000400	0.00
0.000200	0.000200	0.00
0.003100	0.003100	0.00
0.000400	0.000400	0.00
0.015700	0.015700	0.00

0.00	0.00	0.00
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Notes:

1. HAP Metals are included in total PM. HAP VOCs are included in the VOC total.
2. PM-10 is included in the total particulate matter and is not double counted in total regulated air emissions.
3. Values less than 1e-5 are shown as negligible.

TRANSFER POINTS

Worst Case Throughput:		
	TPH	TPY
Jaw Crusher	400	143,000

Per AP-42 13.2.4 (11/06):

$e = 0.0255$

<http://www.epa.gov/ttn/air/p2/c11/rlh/m/ks15-1002.pdf>

AP-42 13.2.4

0.003

Transfer Point ID No.	Worst Case Throughput (TPH)	Emission Factor (lb/ton)	Particulate Matter Emissions									
			Uncontrolled PM Emissions (PPH)	Uncontrolled PM-10 Emissions (PPH)	Control Device I.D.	Capture Eff. (%)	Removal Eff. (%)	Control Eff. (%)	Controlled PM Emissions (PPH)	Controlled PM-10 Emissions (PPH)	Controlled PM2.5 Emissions (PPH)	Material Type
TP1	400	0.02550	10.20	4.82	MD	0	0	0.00	10.200	4.824	1.516	Product
TP4	400	0.02550	10.20	4.82	PE WS	80	100	80.00	2.040	0.965	0.303	Product
TP5	400	0.02550	10.20	4.82	WS	70	70	70.00	3.080	1.447	0.455	Product
TP6	400	0.02550	10.20	4.82	WS	70	70	70.00	3.080	1.447	0.455	Product

UNCONTROLLED EMISSION TOTALS:			
PM	PPH	TPY	TPY
PM-10	40.80	7.29	3.45

UNCONTROLLED EMISSION TOTAL	
PPH	TPY
6.06	1.08

CONTROLLED EMISSION TOTALS:			
PM	PPH	TPY	TPY
PM-10	18.36	3.28	1.55

CONTROLLED EMISSION TOTALS:	
PPH	TPY
2.73	0.48

Crusher Feeder Engine

Worst Case Throughput:	
tph	tpy
Crusher 400	143,000

Per AP-42 11.24-2 0.50 lb PE/ton

Source ID	Worst Case Throughput (TPH)	Emission Factor (lb/ton)	Particulate Matter Emissions																
			Uncontrolled PM Emissions (PPH)	Uncontrolled PM Emissions (TPY)	Uncontrolled PM-10 Emissions (PPH)	Uncontrolled PM-10 Emissions (TPY)	Uncontrolled PM2.5 Emissions (PPH)	Uncontrolled PM2.5 Emissions (TPY)	Control Device I.D.	Capture Eff. (%)	Removal Eff. (%)	Control Eff. (%)	Controlled PM Emissions (PPH)	Controlled PM Emissions (TPY)	Controlled PM-10 Emissions (PPH)	Controlled PM-10 Emissions (TPY)	Controlled PM2.5 Emissions (PPH)	Controlled PM2.5 Emissions (TPY)	Material Type
C1	400	0.50000	200.00	327.36	94.59	16,908	28.73	5.31	PE VMS	80%	90%	81%	40.00	7,190	18,919	3,382	5,348	1,063	Product
E1			0.01	0.05			0.010	0.020				0.010	0.020	0.010	0.020	0.010	0.020		
UNCONTROLLED EMISSION TOTALS:			200.01	327.77	94.59	16,91	29.74	5.33				40.01	7.17	18.93	3.40	5.96	1.08		

Attachment O
Monitoring / Recordkeeping / Reporting / Testing Plans

Felman Production, LLC proposes to monitor, maintain records, and report as required by the existing issued permit.

**Air Quality Permit Notice
Notice of Application**

Notice is given that Felman Production LLC has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for a Rule 13 Temporary Permit Application for the installation of a 'Trakpactor Premiertrak' Portable Crusher at their Letart facility located approximately 4 miles east of New Haven adjacent to US Rt. 33 in Mason County, West Virginia. Latitude: 38.95750, Longitude: 81.92643.

The applicant estimates the temporary potential to discharge the following Regulated Air Pollutants will be:

PM - 10.45 tpy
PM10 - 4.93 tpy
PM2.5 - 1.55 tpy
NOx - 0.02 tpy
SOx - 1.18 tpy
VOC - 1.49 tpy
CO - 0.68 tpy
HAP - 0.157 tpy

Start-up of operation is planned for July 2015. Written comments will be received by the West Virginia Department of Environmental Protection, Division of Air Quality, 601 57th St. 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) 926-0440, ext. 1227, during normal business hours.

By: Felman Production, LLC
Phil Gardner
Plant Manager
4442 Graham Station Road
Letart, WV 25251

**Attachment R
AUTHORITY OF CORPORATION
OR OTHER BUSINESS ENTITY (DOMESTIC OR FOREIGN)**

TO: The West Virginia Department of Environmental Protection,
Division of Air Quality

DATE: JANUARY 20, 2014

ATTN.: Director

Corporation's / other business entity's Federal Employer I.D. Number 02-0761849

The undersigned hereby files with the West Virginia Department of Environmental Protection, Division of Air Quality, a permit application and hereby certifies that the said name is a trade name which is used in the conduct of an incorporated business or other business entity.

Further, the corporation or the business entity certifies as follows:

(1) PHIL GARDNER (is/are) the authorized representative(s) and in that capacity may represent the interest of the corporation or the business entity and may obligate and legally bind the corporation or the business entity.

(2) The corporation or the business entity is authorized to do business in the State of West Virginia.

(3) If the corporation or the business entity changes its authorized representative(s), the corporation or the business entity shall notify the Director of the West Virginia Department of Environmental Protection, Division of Air Quality, immediately upon such change.

MORDECHAI KORE

President or Other Authorized Officer
(Vice President, Secretary, Treasurer or other
official in charge of a principal business function of
the corporation or the business entity)

(If not the President, then the corporation or the business entity must submit certified minutes or bylaws stating legal authority of other authorized officer to bind the corporation or the business entity).

Secretary

Felman Production, LLC

Name of Corporation or business entity

Attachment S
Title V Permit Revision Information

1. New Applicable Requirements Summary	
Mark all applicable requirements associated with the changes involved with this permit revision:	
<input type="checkbox"/> SIP	<input type="checkbox"/> FIP
<input checked="" type="checkbox"/> Minor source NSR (45CSR13)	<input type="checkbox"/> PSD (45CSR14)
<input type="checkbox"/> NESHAP (45CSR15)	<input type="checkbox"/> Nonattainment NSR (45CSR19)
<input checked="" type="checkbox"/> Section 111 NSPS (Subpart(s) <u>OOO</u>)	<input checked="" type="checkbox"/> Section 112(d) MACT standards (Subpart(s) <u>XXX</u>)
<input type="checkbox"/> Section 112(g) Case-by-case MACT	<input type="checkbox"/> 112(r) RMP
<input type="checkbox"/> Section 112(i) Early reduction of HAP	<input type="checkbox"/> Consumer/commercial prod. reqts., section 183(e)
<input type="checkbox"/> Section 129 Standards/Reqts.	<input type="checkbox"/> Stratospheric ozone (Title VI)
<input type="checkbox"/> Tank vessel reqt., section 183(f)	<input type="checkbox"/> Emissions cap 45CSR§30-2.6.1
<input type="checkbox"/> NAAQS, increments or visibility (temp. sources)	<input type="checkbox"/> 45CSR27 State enforceable only rule
<input type="checkbox"/> 45CSR4 State enforceable only rule	<input type="checkbox"/> Acid Rain (Title IV, 45CSR33)
<input type="checkbox"/> Emissions Trading and Banking (45CSR28)	<input type="checkbox"/> Compliance Assurance Monitoring (40CFR64) ⁽¹⁾
<input type="checkbox"/> NO _x Budget Trading Program Non-EGUs (45CSR1)	<input type="checkbox"/> NO _x Budget Trading Program EGUs (45CSR26)
<p>⁽¹⁾ If this box is checked, please include Compliance Assurance Monitoring (CAM) Form(s) for each Pollutants Specific Emission Unit (PSEU) (See Attachment H to Title V Application). If this box is not checked, please explain why Compliance Assurance Monitoring is not applicable:</p> <p>The crusher/screener is not subject to CAM requirements because its emission are opacity based and are fugitives by nature. There are control devices to reduce fugitives but no stack emission to limit.</p>	

2. Non Applicability Determinations
List all requirements, which the source has determined not applicable to this permit revision and for which a permit shield is requested. The listing shall also include the rule citation and a rationale for the determination.
None Follow.
<input type="checkbox"/> Permit Shield Requested (not applicable to Minor Modifications)

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

3. Suggested Title V Draft Permit Language

Are there any changes involved with this Title V Permit revision outside of the scope of the NSR Permit revision? Yes No If Yes, describe the changes below.

Also, please provide **Suggested Title V Draft Permit language** for the proposed Title V Permit revision (including all applicable requirements associated with the permit revision and any associated monitoring /recordkeeping/ reporting requirements), OR attach a marked up pages of current Title V Permit. Please include appropriate citations (Permit or Consent Order number, condition number and/or rule citation (e.g. 45CSR§7-4.1)) for those requirements being added / revised.

4. Active NSR Permits/Permit Determinations/Consent Orders Associated With This Permit Revision

Permit or Consent Order Number	Date of Issuance	Permit/Consent Order Condition Number
CO-R13-2012-11	June 12, 2012	
	/ /	
	/ /	

5. Inactive NSR Permits/Obsolete Permit or Consent Orders Conditions Associated With This Revision

Permit or Consent Order Number	Date of Issuance	Permit/Consent Order Condition Number
CO-R7, 12, 16-93-1	April 16, 1993	CO-R&-95-13, Civil Action No. 94-C-1084
CO-R7-95-13, Civil Action 94-C-1084	April 20, 1995	
	/ /	

6. Change in Potential Emissions

Pollutant	Change in Potential Emissions (+ or -), TPY
PM/PM10/PM2.5	10.45, 4.95, 1.57
NOx, CO, SO2, VOC	.02, .68, 1.18, 1.49
Total HAPs	.015700
CO2	0.00

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

7. Certification For Use Of Minor Modification Procedures (Required Only for Minor Modification Requests)

Note: This certification must be signed by a responsible official. Applications without a signed certification will be returned as incomplete. The criteria for allowing the use of Minor Modification Procedures are as follows:

- i. Proposed changes do not violate any applicable requirement;
- ii. Proposed changes do not involve significant changes to existing monitoring, reporting, or recordkeeping requirements in the permit;
- iii. Proposed changes do not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient air quality impacts, or a visibility increment analysis;
- iv. Proposed changes do not seek to establish or change a permit term or condition for which there is no underlying applicable requirement and which permit or condition has been used to avoid an applicable requirement to which the source would otherwise be subject (synthetic minor). Such terms and conditions include, but are not limited to a federally enforceable emissions cap used to avoid classification as a modification under any provision of Title I or any alternative emissions limit approved pursuant to regulations promulgated under § 112(j)(5) of the Clean Air Act;
- v. Proposed changes do not involve preconstruction review under Title I of the Clean Air Act or 45CSR14 and 45CSR19;
- vi. Proposed changes are not required under any rule of the Director to be processed as a significant modification;

Notwithstanding subparagraph 45CSR§30-6.5.a.1.A. (items i through vi above), minor permit modification procedures may be used for permit modifications involving the use of economic incentives, marketable permits, emissions trading, and other similar approaches, to the extent that such minor permit modification procedures are explicitly provided for in rules of the Director which are approved by the U.S. EPA as a part of the State Implementation Plan under the Clean Air Act, or which may be otherwise provided for in the Title V operating permit issued under 45CSR30.

Pursuant to 45CSR§30-6.5.a.2.C., the proposed modification contained herein meets the criteria for use of Minor permit modification procedures as set forth in Section 45CSR§30-6.5.a.1.A. The use of Minor permit modification procedures are hereby requested for processing of this application.

(Signed):	<u>Phil Gardner</u> <i>(Please use blue ink)</i>	Date:	<u>6 / 18 / 15</u> <i>(Please use blue ink)</i>
Named (typed):	Phil Gardner	Title:	Plant Manager

Note: Please check if the following included (if applicable):

- Compliance Assurance Monitoring Form(s)
- Suggested Title V Draft Permit Language

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.