MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

MISSOURI AIR CONSERVATION COMMISSION

PERMIT TO CONSTRUCT

Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to construct the air contaminant source(s) described below, in accordance with the laws, rules and conditions as set forth herein.

Permit Number: 042018-015

Project Number: 2018-02-039
Installation ID: PORT-0767

Parent Company: Fred Weber, Inc.

Parent Company Address: 2320 Creve Coeur Mill Road, Maryland Heights, MO 63043

Installation Name: Fred Weber, Inc. PORT-0767

Installation Address: 838 VFW Drive, Festus, MO 63028

Location Information: Jefferson County, S16 T40N R6E

Application for Authority to Construct was made for:
Construction of a portable screen plant. This review was conducted in accordance with Section (6), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*.

☐ Standard Conditions (on reverse) are applicable to this permit.

☑ Standard Conditions (on reverse) and Special Conditions are applicable to this permit.

Prepared by
Kathy Kolb
New Source Review Unit

Director or Designee
Department of Natural Resources

APR 23 2018
Effective Date

STANDARD CONDITIONS:

Permission to construct may be revoked if you fail to begin construction or modification within two years from the effective date of this permit. Permittee should notify the Enforcement and Compliance Section of the Air Pollution Control Program if construction or modification is not started within two years after the effective date of this permit, or if construction or modification is suspended for one year or more.

You will be in violation of 10 CSR 10-6.060 if you fail to adhere to the specifications and conditions listed in your application, this permit and the project review. In the event that there is a discrepancy between the permit application and this permit, the conditions of this permit shall take precedence. Specifically, all air contaminant control devices shall be operated and maintained as specified in the application, associated plans and specifications.

You must notify the Enforcement and Compliance Section of the Department's Air Pollution Control Program of the anticipated date of start up of this (these) air contaminant sources(s). The information must be made available within 30 days of actual startup. Also, you must notify the Department's regional office responsible for the area within which you are located within 15 days after the actual start up of this (these) air contaminant source(s).

A copy of the permit application and this permit and permit review shall be kept at the installation address and shall be made available to Department's personnel upon request.

You may appeal this permit or any of the listed special conditions to the Administrative Hearing Commission (AHC), P.O. Box 1557, Jefferson City, MO 65102, as provided in RSMo 643.075.6 and 621.250.3. If you choose to appeal, you must file a petition with the AHC within 30 days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed. If it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC.

If you choose not to appeal, this certificate, the project review and your application and associated correspondence constitutes your permit to construct. The permit allows you to construct and operate your air contaminant sources(s), but in no way relieves you of your obligation to comply with all applicable provisions of the Missouri Air Conservation Law, regulations of the Missouri Department of Natural Resources and other applicable federal, state and local laws and ordinances.

The Air Pollution Control Program invites your questions regarding this air pollution permit. Please contact the Construction Permit Unit using the contact information below.

Contact Information:
Missouri Department of Natural Resources
Air Pollution Control Program
P.O. Box 176
Jefferson City, MO 65102-0176
(573) 751-4817

The regional office information can be found at the following website:
http://dnr.mo.gov/regions/

GENERAL SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

The special conditions listed in this permit were included based on the authority granted the Missouri Air Pollution Control Program by the Missouri Air Conservation Law (specifically 643.075) and by the Missouri Rules listed in Title 10, Division 10 of the Code of State Regulations (specifically 10 CSR 10-6.060). For specific details regarding conditions, see 10 CSR 10-6.060 paragraph (12)(A)10. "Conditions required by permitting authority."

1. Equipment Identification Requirement
   Fred Weber, Inc. PORT-0767 shall maintain easily read permanent markings on each component of the plant. These markings shall be the equipment's serial number or a company assigned identification number that uniquely identifies the individual component.

2. Relocation of Portable Screening Plant
   A. Fred Weber, Inc. PORT-0767 shall not be operated at any location longer than 24 consecutive months except if the Site Specific Special Conditions of this portable plant, PORT-0767, contain a nonroad engine requirement limiting the portable plant at the site specific location to 12 consecutive months.

   B. A complete "Portable Source Relocation Request" application must be submitted to the Air Pollution Control Program prior to any relocation of this portable screening plant.
      1) If the portable screening plant is moving to a site previously permitted, and if the circumstances at the site have not changed, then the application must be received by the Air Pollution Control Program at least seven days prior to the relocation.
      2) If the portable screening plant is moving to a new site, or if circumstances at the site have changed, then the application must be received by the Air Pollution Control Program at least 21 days prior to the relocation. The application must include written notification of any concurrently operating plants.

3. Record Keeping Requirement
   Fred Weber, Inc. PORT-0767 shall maintain all records required by this permit for not less than five years and shall make them available to any Missouri Department of Natural Resources' personnel upon request.

4. Reporting Requirement
   Fred Weber, Inc. PORT-0767 shall report to the Air Pollution Control Program Enforcement Section P.O. Box 176, Jefferson City, MO 65102, no later than 10 days after any exceedances of the limitations imposed by this permit.

SITE SPECIFIC SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

The special conditions listed in this permit were included based on the authority granted the Missouri Air Pollution Control Program by the Missouri Air Conservation Law (specifically 643.075) and by the Missouri Rules listed in Title 10, Division 10 of the Code of State Regulations (specifically 10 CSR 10-6.060). For specific details regarding conditions, see 10 CSR 10-6.060 paragraph (12)(A)10. "Conditions required by permitting authority."

PORT ID Number: PORT-0767
Site ID Number: 099-0007
Site Name: Festus Quarry
Site Address: 838 VFW Drive, Festus, MO 63028
Site County: Jefferson S16 T40N R6E

1. Annual Emission Limit
   A. Fred Weber, Inc. PORT-0767 shall emit less than 15.0 tons of PM_{10} in any 12-month period from the entire installation which consists of the equipment listed in Table 1. The SSM emissions as reported to the Air Pollution Control Program's Compliance/Enforcement Section in accordance with the requirements of 10 CSR 10-6.050 *Start-Up, Shutdown, and Malfunction Conditions* shall be included in the limit.

   B. Fred Weber, Inc. PORT-0767 shall demonstrate compliance with Special Condition 1.A using Attachment A or another equivalent form that has been approved by the Air Pollution Control Program, including an electronic form.

2. Nonroad Engine Requirement
   Fred Weber, Inc. PORT-0767's engine shall not remain at one location within this site longer than 12 consecutive months in order for the engine to meet the definition of a nonroad engine as stated in 40 CFR 89.2. These engines shall be moved with its associated equipment at least once every 12 consecutive months at this site.

3. Record Keeping Requirement
   Fred Weber, Inc. PORT-0767 shall maintain all records required by this permit for not less than five years and make them available to any Missouri Department of Natural Resources' personnel upon request.

4. Reporting Requirement
   Fred Weber, Inc. PORT-0767 shall report to the Air Pollution Control Program, Compliance / Enforcement Section by mail to P.O. Box 176, Jefferson City, MO 65102 or by email at AirComplianceReporting@dnr.mo.gov, no later than 10 days after any exceedances of the limitations imposed by this permit.

REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT AND OPERATE
SECTION (6) REVIEW
Project Number: 2018-02-039
Installation ID Number: PORT-0767
Permit Number: 042018-015

Fred Weber, Inc. PORT-0767
838 VFW Drive
Festus, MO 63028

Complete: March 1, 2018

Parent Company:
Fred Weber, Inc.
2320 Creve Coeur Mill Road
Maryland Heights, MO 63043

Jefferson County, S16 T40N R6E

PROJECT DESCRIPTION

Fred Weber, Inc. is constructing a portable screen plant consisting of a 2-deck screen and two conveyors at their Festus Quarry. The plant is being brought to the site to facilitate the removal of metals such as broken drill bit pieces, from the sandstone to be delivered to US Silica's plant on site. Drill bits break during drilling; if those pieces of metal are introduced into US Silica's system, it increases the likelihood of damage to their plant's components. Drilled and shot material that typically is loaded onto trucks and hauled to the US Silica plant will now be diverted to the screen plant. Trucks will unload to the screen; screened material will be stockpiled via conveyors. The stock piled material will be loaded onto haul trucks and transported to US Silica's plant as is currently done. There is no additional hauling associated with this diversion; however, there will be an increase of one acre of stockpiles.

A diesel engine will supply power for the portable plant. The diesel engine meets the definition of non-road engine as defined in 40 CFR 89.2 (1)(i). Therefore, the emissions of the engine were not included. Although a portable plant is allowed to operate at a site for 24 consecutive months, the diesel engine is only allowed to operate at this site for 12 consecutive months in order for the diesel engine to be classified as a non-road engine.

This installation is located in Jefferson County, a marginal nonattainment area for the 2008 8-hour ozone standard, a moderate nonattainment area for the 1997 $PM_{2.5}$ standard, a nonattainment area for 2010 Sulfur Dioxide and an attainment/unclassified area for all other criteria pollutants.

This installation is not on the List of Named Installations [10 CSR 10-6.020(3)(B), Table 2].

No permits have been issued to Fred Weber, Inc. PORT-0767 from the Air Pollution Control Program.

TABLES

Table 1: Equipment list for PORT-0767

Emission Unit	Description	MHDR
EU-01	Truck unloading	500 tph
EU-02	2-Deck screen	500 tph
EU-03	Conveyor	500 tph
EU-04	Conveyor/Stacker	500 tph
EU-05a	Stockpile load-out	500 tph
EU-05b	Vehicular activity (50 feet)	0.70 VMT
EU-5c	Wind erosion	1 acre

The table below summarizes the emissions of this project. The potential emissions of the process equipment, which excluded emissions from vehicular activity and wind erosion, are not site specific and should not vary from site to site. This is a new portable plant and there are no existing actual emissions. The potential emissions of the application represent the emissions of all equipment and activities assuming continuous operation (8760 hours per year). Conditioned potential emissions account for the voluntary PM_{10} annual emission limit to avoid dispersion modeling requirements found in 10 CSR-6.060 Section (6).

Table 2: Emissions Summary (tons per year) for PORT-0767 at Festus Quarry

Air Pollutant	De Minimis Level/SMAL	[a]Potential Emissions from Process Equipment	Existing Actual Emissions	[b]Potential Emissions of the Application	Conditioned Potential Emissions
PM	25.0	67.89	N/A	98.03	44.11
PM_{10}	15.0	23.87	N/A	33.33	<15.0
$PM_{2.5}$	10.0	2.65	N/A	3.72	1.67
SO_X	40.0	N/A	N/A	N/A	N/A
NO_X	40.0	N/A	N/A	N/A	N/A
VOC	40.0	N/A	N/A	N/A	N/A
CO	100.0	N/A	N/A	N/A	N/A
GHG (CO_2e)	N/A	N/A	N/A	N/A	N/A
GHG (mass)	N/A	N/A	N/A	N/A	N/A
Total HAPs	25.0	N/A	N/A	N/A	N/A

N/A = Not Applicable
[a]Excludes storage pile emissions
[b]Includes storage pile emissions

EMISSIONS CALCULATIONS

Emissions for the project were calculated as described below and using emission factors found in the United States EPA document AP-42 *Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources*, Fifth Edition (AP-42).

Emissions from the screening equipment:

- Calculated using emission factors from AP-42 Section 11.19.2 "Crushed Stone Processing and Pulverized Mineral Processing," August 2004.
- The uncontrolled emission factors were used in lieu of testing for moisture.

Emissions from aggregate handling:

- Calculated using emission factors from AP-42 Section 11.19.2 "Crushed Stone Processing and Pulverized Mineral Processing," August 2004.
- The uncontrolled emission factors were used in lieu of testing for moisture.

Emissions from vehicular activity areas:

- Calculated using the predictive equation from AP-42 Section 13.2.2 "Unpaved Roads," November 2006.
- There will be no watering of vehicular activity area.

Emissions from storage piles:

- Load-in and load-out of storage piles were calculated using the predictive equation from AP-42 Section 13.2.4.
- The default 4.17% by weight moisture content of the sand is used.
- Emissions from wind erosion of storage piles were calculated using an equation found in the Air Pollution Control Program's Emissions Inventory Questionnaire Form 2.8 "Storage Pile Worksheet."

PERMIT RULE APPLICABILITY

This review was conducted in accordance with Section (6) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*. Potential emissions of PM_{10} are conditioned below de minimis levels. Potential emissions of PM are above de minimis levels but remain below major levels.

APPLICABLE REQUIREMENTS

Fred Weber, Inc. PORT-0767 shall comply with the following applicable requirements. The Missouri Air Conservation Laws and Regulations should be consulted for specific record keeping, monitoring, and reporting requirements. Compliance with these emission standards, based on information submitted in the application, has been verified at the time this application was approved.

- *Submission of Emission Data, Emission Fees and Process Information,* 10 CSR 10-6.110.

- An Operating Permit is not required because this installation is a portable plant.

- *Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin*, 10 CSR 10-6.170

- *Restriction of Emission of Visible Air Contaminants*, 10 CSR 10-6.220

- *Restriction of Emission of Odors*, 10 CSR 10-6.165

SPECIFIC REQUIREMENTS

- None of the National Emission Standards for Hazardous Air Pollutants (NESHAPS) or National Emission Standards for Hazardous Air Pollutants for Source Categories (MACTS) apply to the proposed equipment.

- 40 CFR 60 Subpart OOO, "Standards of Performance for Nonmetallic Mineral Processing Plants" applies to the equipment

STAFF RECOMMENDATION

On the basis of this review conducted in accordance with Section (6), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*, it is recommended that this permit be granted with special conditions.

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, dated February 20, 2018, received February 22, 2018, designating Fred Weber, Inc. as the owner and operator of the installation.

Attachment A: PM_{10} 12-Month Rolling Total Emissions Tracking Sheet

Fred Weber, Inc. PORT-0767

Project Number: 2018-02-039

Permit Number: 042018-015

Site Name: Festus Quarry

Site Address: 838 VFW Drive, Festus, MO 63028

Site County: Jefferson

This sheet covers the period from ________________ (Month, Day Year) to ________________ (Month, Day Year) (Copy as needed)

Month	Production (tons)	PM_{10} Composite Emission Factor (lb/ton)	Monthly PM_{10} Emissions[1] (lbs)	Startup, Shutdown and Malfunction PM_{10} Emissions[2] (lbs)	Monthly PM_{10} Emissions[3] (tons)	12-Month Rolling Total Emissions[4] (tons)
Example	*157,000*	*0.0152*	*2386.4*	*0.0*	*1.2*	*1.2+11 previous months*
		0.0152				
		0.0152				
		0.0152				
		0.0152				
		0.0152				
		0.0152				
		0.0152				
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		0.0152				
		0.0152				

[1]Multiply the monthly production by the PM_{10} composite emission factor.

[2]As reported to the Air Pollution Control Program's Compliance/Enforcement Section according to the provisions of 10 CSR 10-6.050 for the month.

[3]Add the monthly PM_{10} emissions plus the SSM emissions from the same time period and divide by 2000 and

[4]Add the monthly emissions (tons) to the sum of the monthly emissions from the previous eleven months. A total of less than 15.0 tons of PM_{10} per consecutive 12 months is necessary for compliance.

APPENDIX A

Abbreviations and Acronyms

% ..... percent
°F ..... degrees Fahrenheit
acfm ..... actual cubic feet per minute
BACT ..... Best Available Control Technology
BMPs ..... Best Management Practices
Btu ..... British thermal unit
CAM ..... Compliance Assurance Monitoring
CAS ..... Chemical Abstracts Service
CEMS ..... Continuous Emission Monitor System
CFR ..... Code of Federal Regulations
CO ..... carbon monoxide
CO_2 ..... carbon dioxide
CO_2e ..... carbon dioxide equivalent
COMS ..... Continuous Opacity Monitoring System
CSR ..... Code of State Regulations
dscf ..... dry standard cubic feet
EIQ ..... Emission Inventory Questionnaire
EP ..... Emission Point
EPA ..... Environmental Protection Agency
EU ..... Emission Unit
fps ..... feet per second
ft ..... feet
GACT ..... Generally Available Control Technology
GHG ..... Greenhouse Gas
gpm ..... gallons per minute
gr ..... grains
GWP ..... Global Warming Potential
HAP ..... Hazardous Air Pollutant
hr ..... hour
hp ..... horsepower
lb ..... pound
lbs/hr ..... pounds per hour
MACT ..... Maximum Achievable Control Technology
$\mu g/m^3$ ..... micrograms per cubic meter
m/s ..... meters per second
Mgal ..... 1,000 gallons
MW ..... megawatt
MHDR ..... maximum hourly design rate
MMBtu ..... Million British thermal units
MMCF ..... million cubic feet
MSDS ..... Material Safety Data Sheet
NAAQS ..... National Ambient Air Quality Standards
NESHAPs ..... National Emissions Standards for Hazardous Air Pollutants
NO_x ..... nitrogen oxides
NSPS ..... New Source Performance Standards
NSR ..... New Source Review
PM ..... particulate matter
$PM_{2.5}$ ..... particulate matter less than 2.5 microns in aerodynamic diameter
PM_{10} ..... particulate matter less than 10 microns in aerodynamic diameter
ppm ..... parts per million
PSD Prevention of Significant Deterioration
PTE ..... potential to emit
RACT ..... Reasonable Available Control Technology
RAL ..... Risk Assessment Level
SCC ..... Source Classification Code
scfm ..... standard cubic feet per minute
SDS ..... Safety Data Sheet
SIC ..... Standard Industrial Classification
SIP ..... State Implementation Plan
SMAL ..... Screening Model Action Levels
SO_x ..... sulfur oxides
SO_2 ..... sulfur dioxide
SSM ..... startup, shutdown, & malfunction
tph ..... tons per hour
tpy ..... tons per year
VMT ..... vehicle miles traveled
VOC ..... Volatile Organic Compound

NOTICE: This spreadsheet is for your use only and should be used with caution. MoDNR does not guarantee the accuracy of the information it contains. This spreadsheet is subject to continual revision and updating. It is your responsibility to be aware of the most current, accurate and complete information available. MoDNR is not responsible for errors or omissions in this spreadsheet. Submittal of the information contained in this spreadsheet (workbook) does not relieve the responsible official of the certification statement signed on the first page of the application.

For Single Plant Operation

Hours per day	24.0
Days per year	164.3
Hours per year	3942.1

For Multiple Plant Operation

Hours per day	24.0
Days per year	164.3
Hours per year	3942.1

Pollutant	Justification for Limit
PM10	De Minimis

Pollutant	Potential Emissions of Each Process Equipment (tons/yr)	Potential Emissions Including Fugitives (tons/yr)	Allowable Emissions for 3942 hours per year (tons/yr)	De minimis Limit Thresholds (tons/yr)	Plant-wide Composite Emission Factor (lb/ton)
PM	67.89	98.03	44.11	25	0.0448
PM_{10}	23.87	33.33	15.00	15	0.0152
$PM_{2.5}$	2.65	3.72	1.67	10	0.0017
SO_2	-	-		40	0.0000
NO_2	-	-		40	0.0000
VOC	-	-		40	0.0000
CO	-	-		100	0.0000
CH_2O	-	-		2.00	0.0000
Pb	-	-		0.01	0.0000
HAPs	-	-		10	0.0000
CO_2	-	-		100	0.0000
N_2O	-	-		100	0.0000
CH_4	-	-		100	0.0000
GHG_{mass}	-	-		100	0.0000
CO_2eq	-	-		100,000	0.0000

Maximum Source Capacity (lbs/hr)	500

Hours of Operation per day	12,000.0
Hours of Operation per year	1,971,045.9

Limit Hours per Year

Limit Hours per Year w/ 24 hr day

General Plant Information

Primary Unit Size (tons per hour)	500

It is important that you read all the comments (cells marked with a red triangle in the upper right corner) because they may direct you to make changes to the data entry cells.

Emission Point Information

Emission Point	Stack Height (feet)	Stack Inside Diameter (feet)	Stack Gas Flow Rate (ACFM)	Stack Gas Exit Temp (°F)

Storage Pile Information

Storage Pile ID No.	Pile #1	Pile #2	Pile #3	Pile #4
Maximum Area of Storage Pile (Acres)	1			
Type of Material Stored:	Sand			
Moisture Content %:	4.17			
Silt Content %:	2.6			
Method of Load In to Storage Pile	Conveyor/Stacker			
Method of Load Out from Storage Pile	Loader			
Distance Loader Travels (feet)	50			
Unloaded Loader Weight (tons)	32.50			
Loaded Loader Weight (tons)	42.00			
Rate (tons/hour)	350.00			
max VMT per hour	0.6978			
Surface Treatment	Unpaved			
Vehicular Area Control				

Haul Road Information

Haul Road ID No.	Road #1	Road #2	Road #3	Road #4	Road #5	Road #6
Length of Haul Road (feet) Enter the length of each roadway in feet. The plant layout diagram (drawn to scale) should document and support the value entered. Note: Twice this distance is used, one trip in and one out.						
Unloaded Truck Weight (tons)						
Loaded Truck Weight (tons)						
Rate Hauled (tons/hour)						
max VMT per hour						
Surface Treatment						
Haul Road Control						

Engine Set Information

	#1	#2	#3
Type of Fuel			
Brake Horsepower (bhp)			
Engine kilowatt rating (kW)			
gallons per hour			
Engine MHDR (mmBtu per hour, mpbh)			
Is this a generator set engine?			
Model Year (yyyy)			
Fuel Sulfur Content (% weight sulfur)			

Combustion Sources

Combustion ID Description	Combustion #1		Combustion #2	Desc #2	Combustion #3	Desc #3
Heat Rate		mmBtu/hour		mmBtu/hour		mmBtu/hour
		mgal/hour		mgal/hour		mgal/hour
		mmscf/hour		mmscf/hour		mmscf/hour
	In regards to AP-42 Chapter 1	In regards to 40 CFR Part 98	In regards to AP-42 Chapter 1	In regards to 40 CFR Part 98	In regards to AP-42 Chapter 1	In regards to 40 CFR Part 98
Fuel Type						
Fuel Sulfur Content (% weight sulfur, for oil, grains of sulfur/100 cuft gas reqd. for Butane and Propane, not used for Natural gas)		% weight sulfur		% weight sulfur		% weight sulfur

Liquid Storage Tanks

Tank ID	Tank #1	Tank #2	Tank #3	Tank #4	Tank #5	Tank #6
Annual VOC (pounds)						
Annual VOC (tons)						

Enter Emission Unit Information Below

Equipment Operational Status	Emission Unit Number	Description of Unit	Equipment/SCC Description	Equip Type	Max Hourly ThroughPut (MHTP)	MHTP Units	Control Type	"OOO" Applicable
E	EP-01	Turck unloading	Truck Unloading - Fragmanted Stone EF 30502031	Fugitive	500.0000	Tons		
E	EP-02	Screening	Screens, (3/16" or Greater) 30502002	Process	500.0000	Tons		
E	EP-03	Conveyor	Conveyor 30502006	Process	500.0000	Tons		
E	EP-04	Stacker	Conveyor 30502006	Process	500.0000	Tons		

Emission Point Number	Emission Unit Number	Description	SCC	Maximum Hourly	Units of Measure	Control Device Number	Control Type	Capture Efficiency (%)	Control Efficiency (%)	Pollutant	Emission Factor	Emission Factor (lbs/UoM)	Emission Rate (lb/hr)	Potential Emissions (tons/yr)	Allowable Emissions (tons/yr)
		EngSet #1			bhp			N/A	N/A	PM		mmBtu			
					gallons per hour			N/A	N/A	PM_{10}		mmBtu			
		Model Year			MMBtu/hour			N/A	N/A	$PM_{2.5}$		mmBtu			
					kW-hr			N/A	N/A	SO_2		Gallon			
								N/A	N/A	NO_2		mmBtu			
								N/A	N/A	CO		mmBtu			
								N/A	N/A	VOC		mmBtu			
								N/A	N/A	CH_2O		mmBtu			
								N/A	N/A	HAPs		mmBtu			
								N/A	N/A	CO_2		mmBtu			
								N/A	N/A	N_2O		mmBtu			
								N/A	N/A	GHG_{mass}		mmBtu			
								N/A	N/A	CH_4		mmBtu			
		EngSet #2			bhp			N/A	N/A	PM		mmBtu			
					gallons per hour			N/A	N/A	PM_{10}		mmBtu			
		Model Year			MMBtu/hour			N/A	N/A	$PM_{2.5}$		mmBtu			
					kW-hr			N/A	N/A	SO_2		Gallon			
								N/A	N/A	NO_2		mmBtu			
								N/A	N/A	CO		mmBtu			
								N/A	N/A	VOC		mmBtu			
								N/A	N/A	CH_2O		mmBtu			
								N/A	N/A	HAPs		mmBtu			
								N/A	N/A	CO_2		mmBtu			
								N/A	N/A	N_2O		mmBtu			
								N/A	N/A	GHG_{mass}		mmBtu			
								N/A	N/A	CH_4		mmBtu			
		EngSet #3			bhp			N/A	N/A	PM		mmBtu			
					gallons per hour			N/A	N/A	PM_{10}		mmBtu			
		Model Year			MMBtu/hour			N/A	N/A	$PM_{2.5}$		mmBtu			
					kW-hr			N/A	N/A	SO_2		Gallon			
								N/A	N/A	NO_2		mmBtu			
								N/A	N/A	CO		mmBtu			
								N/A	N/A	VOC		mmBtu			
								N/A	N/A	CH_2O		mmBtu			
								N/A	N/A	HAPs		mmBtu			
								N/A	N/A	CO_2		mmBtu			
								N/A	N/A	N_2O		mmBtu			
								N/A	N/A	GHG_{mass}		mmBtu			
								N/A	N/A	CH_4		mmBtu			
		Pile #1													
		Load in		0.00	tons per hour			N/A	N/A	PM	0.0021	ton	0.00E+00	0.00	0.00
								N/A	N/A	PM_{10}	0.0010	ton	0.00E+00	0.00	0.00
								N/A	N/A	$PM_{2.5}$	0.0001	ton	0.00E+00	0.00	0.00
	5a	Load out		350.00	tons per hour			N/A	N/A	PM	0.0021	ton	7.30E-01	3.20	1.44
								N/A	N/A	PM_{10}	0.0010	ton	3.45E-01	1.51	0.68
								N/A	N/A	$PM_{2.5}$	0.0001	ton	5.22E-02	0.23	0.10
	5b	Vehicular Activity		0.70	VMT per hour		Unpaved	N/A	N/A	PM	9.3773	VMT	5.85E+00	25.80	11.52
								N/A	N/A	PM_{10}	2.3822	VMT	1.66E+00	7.28	3.28
								N/A	N/A	$PM_{2.5}$	0.2382	VMT	1.66E-01	0.73	0.33
	5c	Wind Erosion		1.00	acres			N/A	N/A	PM	0.2898	acre-hr	2.90E-01	1.27	0.57
								N/A	N/A	PM_{10}	0.1449	acre-hr	1.45E-01	0.63	0.29
								N/A	N/A	$PM_{2.5}$	0.0217	acre-hr	2.17E-02	0.10	0.04
		Pile #2													
		Load in			tons per hour			N/A	N/A	PM		ton			
								N/A	N/A	PM_{10}		ton			
								N/A	N/A	$PM_{2.5}$		ton			
		Load out			tons per hour			N/A	N/A	PM		ton			
								N/A	N/A	PM_{10}		ton			
								N/A	N/A	$PM_{2.5}$		ton			
		Vehicular Activity			VMT per hour			N/A	N/A	PM		VMT			
								N/A	N/A	PM_{10}		VMT			
								N/A	N/A	$PM_{2.5}$		VMT			
		Wind Erosion			acres			N/A	N/A	PM		acre-hr			
								N/A	N/A	PM_{10}		acre-hr			
								N/A	N/A	$PM_{2.5}$		acre-hr			
		Pile #3													
		Load in			tons per hour			N/A	N/A	PM		ton			
								N/A	N/A	PM_{10}		ton			
								N/A	N/A	$PM_{2.5}$		ton			
		Load out			tons per hour			N/A	N/A	PM		ton			
								N/A	N/A	PM_{10}		ton			
								N/A	N/A	$PM_{2.5}$		ton			
		Vehicular Activity			VMT per hour			N/A	N/A	PM		VMT			
								N/A	N/A	PM_{10}		VMT			
								N/A	N/A	$PM_{2.5}$		VMT			
		Wind Erosion			acres			N/A	N/A	PM		acre-hr			
								N/A	N/A	PM_{10}		acre-hr			
								N/A	N/A	$PM_{2.5}$		acre-hr			
		Pile #4													
		Load in			tons per hour			N/A	N/A	PM		ton			
								N/A	N/A	PM_{10}		ton			
								N/A	N/A	$PM_{2.5}$		ton			
		Load out			tons per hour			N/A	N/A	PM		ton			
								N/A	N/A	PM_{10}		ton			
								N/A	N/A	$PM_{2.5}$		ton			
		Vehicular Activity			VMT per hour			N/A	N/A	PM		VMT			
								N/A	N/A	PM_{10}		VMT			
								N/A	N/A	$PM_{2.5}$		VMT			
		Wind Erosion			acres			N/A	N/A	PM		acre-hr			
								N/A	N/A	PM_{10}		acre-hr			
								N/A	N/A	$PM_{2.5}$		acre-hr			

Emission Point Number	Emission Unit Number	Description	SCC	Maximum Hourly	Units of Measure	Control Device Number	Control Type	Capture Efficiency (%)	Control Efficiency (%)	Pollutant	Emission Factor	Emission Factor (lbs/UoM)	Emission Rate (lb/hr)	Potential Emissions (tons/yr)	Allowable Emissions (tons/yr)
		Road #1			VMT per hour			N/A	N/A	PM		VMT			
								N/A	N/A	PM_{10}		VMT			
								N/A	N/A	$PM_{2.5}$		VMT			
		Road #2			VMT per hour			N/A	N/A	PM		VMT			
								N/A	N/A	PM_{10}		VMT			
								N/A	N/A	$PM_{2.5}$		VMT			
		Road #3			VMT per hour			N/A	N/A	PM		VMT			
								N/A	N/A	PM_{10}		VMT			
								N/A	N/A	$PM_{2.5}$		VMT			
		Road #4			VMT per hour			N/A	N/A	PM		VMT			
								N/A	N/A	PM_{10}		VMT			
								N/A	N/A	$PM_{2.5}$		VMT			
		Road #5			VMT per hour			N/A	N/A	PM		VMT			
								N/A	N/A	PM_{10}		VMT			
								N/A	N/A	$PM_{2.5}$		VMT			
		Road #6			VMT per hour			N/A	N/A	PM		VMT			
								N/A	N/A	PM_{10}		VMT			
								N/A	N/A	$PM_{2.5}$		VMT			

Equipment	Unit ID	Description of Unit	Equipment Description/SCC	Heat Rate	UoM per hour							Emission Factor (lbs/UoM)				
		Combustion #1			mmBtu			100%	N/A	PM		mgal				
					mgal			100%	N/A	PM_{10}		mgal				
					mmscf			100%	N/A	$PM_{2.5}$		mgal				
								100%	N/A	SO_2		mgal				
								100%	N/A	NO_2		mgal				
								100%	N/A	VOC		mgal				
								100%	N/A	CO		mgal				
								100%	N/A	CH_2O		mgal				
								100%	N/A	Pb		mgal				
								100%	N/A	HAPs		mgal				
								100%	N/A	CO_2		mgal				
								100%	N/A	N_2O		mgal				
								100%	N/A	GHG_{mass}		mgal				
								100%	N/A	CH_4		mgal				
		Combustion #2			mmBtu			100%	N/A	PM		mgal				
					mgal			100%	N/A	PM_{10}		mgal				
					mmscf			100%	N/A	$PM_{2.5}$		mgal				
								100%	N/A	SO_2		mgal				
								100%	N/A	NO_2		mgal				
								100%	N/A	VOC		mgal				
								100%	N/A	CO		mgal				
								100%	N/A	CH_2O		mgal				
								100%	N/A	Pb		mgal				
								100%	N/A	HAPs		mgal				
								100%	N/A	CO_2		mgal				
								100%	N/A	N_2O		mgal				
								100%	N/A	GHG_{mass}		mgal				
								100%	N/A	CH_4		mgal				
		Combustion #3			mmBtu			100%	N/A	PM		mgal				
					mgal			100%	N/A	PM_{10}		mgal				
					mmscf			100%	N/A	$PM_{2.5}$		mgal				
								100%	N/A	SO_2		mgal				
								100%	N/A	NO_2		mgal				
								100%	N/A	VOC		mgal				
								100%	N/A	CO		mgal				
								100%	N/A	CH_2O		mgal				
								100%	N/A	Pb		mgal				
								100%	N/A	HAPs		mgal				
								100%	N/A	CO_2		mgal				
								100%	N/A	N_2O		mgal				
								100%	N/A	GHG_{mass}		mgal				
								100%	N/A	CH_4		mgal				

Equipment Operational Status	Emission Unit Number	Description of Unit	Equipment/SCC Description	MHTP	Units	Equip Type	Control Type					Emission Factor (lbs/UoM)				
E	EP-01	Turck unloading	Truck Unloading - Fragmented Stone EF 30502031	500.00	Tons	Fugitive		100%	0.00%	PM	0.000032	Tons	1.60E-02	7.01E-02	3.15E-02
						Fugitive		100%	0.00%	PM_{10}	0.000016	Tons	8.00E-03	3.50E-02	1.58E-02
						Fugitive		100%	0.00%	$PM_{2.5}$	0.000008	Tons	4.00E-03	1.75E-02	7.88E-03
E	EP-02	Screening	Screens, (3/16" or Greater) 30502002	500.00	Tons	Process		100%	0.00%	PM	0.025	Tons	1.25E+01	5.48E+01	2.46E+01
						Process		100%	0.00%	PM_{10}	0.0087	Tons	4.35E+00	1.91E+01	8.57E+00
						Process		100%	0.00%	$PM_{2.5}$	0.000567838	Tons	2.94E-01	1.29E+00	5.79E-01
E	EP-03	Conveyor	Conveyor 30502006	500.00	Tons	Process		100%	0.00%	PM	0.003	Tons	1.50E+00	6.57E+00	2.96E+00
						Process		100%	0.00%	PM_{10}	0.0011	Tons	5.50E-01	2.41E+00	1.08E+00
						Process		100%	0.00%	$PM_{2.5}$	0.00031067	Tons	1.55E-01	6.81E-01	3.06E-01
E	EP-04	Stacker	Conveyor 30502006	500.00	Tons	Process		100%	0.00%	PM	0.003	Tons	1.50E+00	6.57E+00	2.96E+00
						Process		100%	0.00%	PM_{10}	0.0011	Tons	5.50E-01	2.41E+00	1.08E+00
						Process		100%	0.00%	$PM_{2.5}$	0.00031067	Tons	1.55E-01	6.81E-01	3.06E-01

Missouri Department of dnr.mo.gov
NATURAL RESOURCES
Eric R. Greitens, Governor Carol S. Comer, Director

APR 2 3 2018

Ms. Lina Klein
Environmental Director
Fred Weber, Inc.
2320 Creve Coeur Mill Road
Maryland Heights, MO 63043

RE: New Source Review Permit - Project Number: 2018-02-039
Installation Number: PORT-0767

Dear Ms. Klein:

Enclosed with this letter is your permit to construct. Please study it carefully and refer to Appendix A for a list of common abbreviations and acronyms used in the permit. Also, note the special conditions on the accompanying pages. The document entitled, "Review of Application for Authority to Construct," is part of the permit and should be kept with this permit in your files. Operation in accordance with these conditions, your new source review permit application is necessary for continued compliance. In addition, please note that Fred Weber, Inc. PORT-0767 cannot operate with any other plants that have ambient impact limits based on the Air Pollution Control Program's nomographs. Please refer to the permits of any plant that you are operating with to see if their respective permits contain an ambient impact limit. The reverse side of your permit certificate has important information concerning standard permit conditions and your rights and obligations under the laws and regulations of the State of Missouri.

This permit may include requirements with which you may not be familiar. If you would like the department to meet with you to discuss how to understand and satisfy the requirements contained in this permit, an appointment referred to as a Compliance Assistance Visit (CAV) can be set up with you. To request a CAV, please contact your local regional office or fill out an online request. The regional office contact information can be found at the following website: http://dnr.mo.gov/regions/. The online CAV request can be found at http://dnr.mo.gov/cav/compliance.htm.

If you were adversely affected by this permit decision, you may be entitled to pursue an appeal before the administrative hearing commission pursuant to Sections 621.250 and 643.075.6 RSMo. To appeal, you must file a petition with the administrative hearing commission within thirty days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed; if it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the administrative hearing commission,

whose contact information is: Administrative Hearing Commission, United States Post Office Building, 131 West High Street, Third Floor, P.O. Box 1557, Jefferson City, Missouri 65102, phone: 573-751-2422, fax: 573-751-5018, website: www.oa.mo.gov/ahc.

If you have any questions, please do not hesitate to contact Kathy Kolb, at the department's Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102 or at (573) 751-4817. Thank you for your attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Susan Heckenkamp
New Source Review Unit Chief

SH:kkj

Enclosures

c: SLRO Regional Office
PAMS File: 2018-02-039

Permit Number: 042018-015