

STATE OF 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: 042009-012 Project Number: 2009-01-042

Parent Company: Fred Weber Inc.

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

Installation Name: Fred Weber Inc. - PORT-0624

Installation Address: Route 1, Box 112
Annapolis, MO 63620

Location Information: Reynolds County, S15, T33N, R2E

Application for Authority to Construct was made for:
The modification of PORT-0624. Fred Weber Inc. is adding a 125 HP John Deer diesel engine. This review was conducted in accordance with Section (5), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*.

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

APR 20 2009

EFFECTIVE DATE


DIRECTOR OR DESIGNEE
DEPARTMENT OF NATURAL RESOURCES

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 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 Departments' Air Pollution Control Program of the anticipated date of start up of this (these) air contaminant source(s). The information must be made available not more than 60 days but at least 30 days in advance of this date. Also, you must notify the Department of Natural Resources 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 this permit and permit review shall be kept at the installation address and shall be made available to Department of Natural Resources' 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 source(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 at (573) 751-4817. If you prefer to write, please address your correspondence to the Missouri Department of Natural Resources, Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102-0176, attention: Construction Permit Unit.

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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); by the Missouri Rules listed in Title 10, Division 10 of the Codes of State Regulations (specifically 10 CSR 10-6.060); by 10 CSR 10-6.060 paragraph (12)(A)10. "Conditions required by permitting authority"; by 10 CSR 10-6.010 "Ambient Air Quality Standards" and 10 CSR 10-6.060 subsections (5)(D) and (6)(A); and by control measures requested by the applicant, in their permit application, to reduce the amount of air pollutants being emitted, in accordance with 10 CSR 10-6.060 paragraph (6)(E)3. Furthermore, one or more of the Subparts of 40 CFR Part 60, New Source Performance Standards (NSPS), applies to this installation.

1. Equipment Removal

The following equipment shall be removed from portable plant (PORT-0624):

Emission Unit	Description
EP-01	Primary Screen (Trommel Screen)
EP-02	Removal of Two conveyors, lowering the total number of conveyors on site to Four
EP-04	Product Stackers

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SITE SPECIFIC SPECIAL CONDITIONS:

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

Site ID No.:179-0032
Site Name:Fred Weber, Inc.
Site Address:Route 1, Box 112, Annapolis, MO 63620
Site County:Reynolds County, S15, T33N, R2E

1. National Ambient Air Quality Standards (NAAQS) Limitation for Particulate Matter Less Than Ten Microns in Diameter (PM₁₀)
 - A. The operator(s) for Fred Weber, Inc.'s portable rock screening plant (PORT-0624) shall ensure, while operating at this site, that the ambient impact of PM₁₀ at or beyond the nearest property boundary does not exceed 150 µg/m³ in any 24-hour period, in accordance with the federal NAAQS requirements (40 CFR 50.6).
 - B. The portable plant, PORT-0624, is permitted to operate under four (4) scenarios: Solitary, concurrent (same owners), concurrent (separate owners) and concurrent (same **and** separate owners) operations. The total daily ambient impact of PM₁₀ at this site shall include the combined impact of the portable rock screening plant and any ambient background concentration from installations or equipment located on the same site as the portable rock screening plant.
 - C. To demonstrate compliance during concurrent (same owner) and concurrent (same **and** separate owner) operations, the operator(s) shall maintain a daily record of material processed. Attachment A, or other equivalent form(s), shall be used for this purpose during concurrent (same owner) operations, and Attachment B, or other equivalent form(s), shall be used for this purpose during concurrent (same **and** separate owners) operations.

2. Superseding Condition
The conditions of this permit supersede Site Specific Special Condition 2 found in the previously issued construction permit 112008-007 from the Air Pollution Control Program.

REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT AND OPERATE
SECTION (Section 5) REVIEW
Project Number: 2009-01-042
Installation ID Number: PORT-0624
Permit Number:

Fred Weber Inc. - PORT-0624
Route 1, Box 112
Annapolis, MO 63620

Complete: 3/13/2009

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

Reynolds County, S15, T33N, R2E

REVIEW SUMMARY

- Fred Weber Inc. has applied for authority to modify the portable screening plant - PORT-0624 by adding a 125 HP diesel engine.
- Hazardous Air Pollutant (HAP) emissions are expected from the proposed equipment but at negligible levels.
- Subpart IIII of the New Source Performance Standards (NSPS) applies to the type of plant.
- None of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) or currently promulgated Maximum Achievable Control Technology (MACT) regulations apply to the proposed equipment.
- No air pollution control equipment is being used in association with the new equipment.
- This review was conducted in accordance with Section (5) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*. Potential emissions of each criteria are below de minimis levels.
- This installation is located in Reynolds County, an attainment area for all criteria air pollutants.
- This installation is not on the List of Named Installations [10 CSR 10-6.020(3)(B), Table 2].
- Screen 3 modeling was performed to determine the ambient impact of PM₁₀

- Emissions' testing is not required for the equipment.
- An Operating permit is not required for the new equipment because this is a portable plant
- Approval of this permit is recommended with special conditions.

INSTALLATION DESCRIPTION

The installation is a portable screening plant (PORT-0624) with a maximum hourly design rate of 600 tons per hour. The portable plant will be used to screen rock for the purpose of rebuilding the Taum Sauk upper reservoir. Five other plants are currently permitted to operate at this site.

1. AmerenUE Portable crushing plant, PORT-0584, Permit #032008-012, Project #2008-01-030
2. AmerenUE Portable Roller Compacted Concrete (RCC) plant, PORT-0585, Permit #042007-003, Project #2007-04-074
3. AmerenUE Portable RCC plant, PORT-0586, Permit #042007-004, Project #2007-04-075
4. Fred Weber Portable concrete plant, PORT-0587, Permit #102007-013, Project #2008-06-042
5. AmerenUE Portable concrete plant, PORT-0621, Permit #092008-007, Project #2008-07-080

Equipment for this plant has been powered by electrical line power. The permit allows for use of a 125 HP John Deere diesel engine. This installation is not on the List of Named Installations [10 CSR 10-6.020(3)(B), Table 2]. The installation is located in Reynolds County, an attainment area for all criteria air pollutants.

The following permits have been issued to Fred Weber Inc. - PORT-0624 from the Air Pollution Control Program.

Permit Number	Description
112008-007	Portable Screening Plant

PROJECT DESCRIPTION

Fred Weber Inc. wants to remove the primary screening unit and convert the 2-deck screening unit into the primary unit. Fred Weber Inc. also is removing two conveyors bringing the total amount down to four conveyors. Also PORT-0624 is removing electric power and adding a 125 HP diesel engine as the power source for the plant.

This permit does not change the current permit# 112008-007 other than remove the equipment mentioned above and re-establish the daily PM₁₀ limit. This permit will provide new record keeping sheets based on a new ambient air quality impact analysis that takes into account the new engine and the current equipment excluding the equipment that was removed.

EMISSIONS/CONTROLS EVALUATION

The emission factors and control efficiencies used in this analysis were obtained from the Environmental Protection Agency (EPA) document AP-42, *Compilation of Air Pollutant Emission Factors*, Fifth Edition, Chapter 3.3, October 1996. Potential emissions (PTE) of the application represent the potential of the new equipment, assuming continuous operation (8,760 hours per year.) It was found that the PTE for the new diesel engine was greater than Insignificant Emission Exemption Level of 2.75 pounds per hour for NO_x which triggered the need for a permit. The following table provides an emissions summary for this project.

Table 1: Emissions Summary (tons per year)

Pollutant	Regulatory De Minimis Levels	*Existing Potential Emissions	Existing Actual Emissions (EIQ)	**Potential Emissions of the Application	New Installation Conditioned Potential
PM ₁₀	15.0	<50.0	N/D	1.23	51.23
SO _x	40.0	N/A	N/D	0.06	0.06
NO _x	40.0	N/A	N/D	17.55	17.55
VOC	40.0	N/A	N/D	1.43	1.43
CO	100.0	N/A	N/D	3.78	3.78
HAPs	10.0/25.0	N/A	N/D	0.02	0.02

N/A = Not Applicable; N/D = Not Determined

*Existing potential were retrieved from Permit #112008-007.

**Potential Emissions of the Application only include the emissions of the 125HP diesel engine.

PERMIT RULE APPLICABILITY

This review was conducted in accordance with Section (5) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*. Potential emissions of each criteria pollutant are below de minimis levels.

APPLICABLE REQUIREMENTS

Fred Weber Inc. - PORT-0624 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.

GENERAL REQUIREMENTS

- Submission of Emission Data, Emission Fees and Process Information, 10 CSR 10-6.110
The emission fee is the amount established by the Missouri Air Conservation Commission annually under Missouri Air Law 643.079(1). Submission of an Emissions Inventory Questionnaire (EIQ) is required June 1 for the previous year's emissions.
- *Operating Permits*, 10 CSR 10-6.065
- *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 10-3.090

SPECIFIC REQUIREMENTS

- *Restriction of Emission of Sulfur Compounds*, 10 CSR 10-6.260

AMBIENT AIR QUALITY IMPACT ANALYSIS

Screening tools were used to evaluate the ambient air impact of the hourly emissions from this operation. The ambient impact was evaluated at a distance of 1,300 feet to the nearest property boundary. The ambient impact at this site shall not exceed the National Ambient Air Quality Standard (NAAQS) of $150 \mu\text{g}/\text{m}^3$ of PM_{10} at or beyond the nearest property boundary in any single 24-hour period. For sources agreeing to use Best Management Practices (BMPs) haul roads and stockpiles are not modeled with screening tools. Instead, they are addressed as a background level of $20 \mu\text{g}/\text{m}^3$ of PM_{10} . To ensure conformity with NAAQS, the remaining process emissions are limited to an impact of less than $130 \mu\text{g}/\text{m}^3$ of PM_{10} at or beyond the nearest property boundary.

This portable plant is permitted to operate under four (4) separate scenarios.

- Solitary Operations: Operations when the screening plant is the only plant located at this site.
- Concurrent (Same Owner) Operations: Operations when the screening plant is located at this site at the same time as other plants owned by Fred Weber, Inc.
- Concurrent (Separate Owners) Operations: Operations when the screening plant is located at this site at the same time as other plants owned by other companies.

- Concurrent (Same **and** Separate Owners) Operations: Operations when the screening plant is located at this site at the same time as plants owned by Fred Weber, Inc. **and** plants owned by other companies.

During solitary and concurrent (separate owner) operations, the portable plant can operate for twenty-four (24) hours without violating the NAAQS. Therefore, no record keeping is necessary to show compliance. During concurrent (same owner) operations, the portable plant shall track its own daily PM₁₀ ambient impact and the ambient impact of other plants at the site to ensure compliance with NAAQs. Attachment A, or equivalent forms, shall be used for this purpose. During concurrent (same **and** separate owner) operations, plants owned by Fred Weber, Inc. are permitted for 45 µg/m³ of PM₁₀ ambient impact while plants owned by other companies are permitted for 85 µg/m³ of PM₁₀. The portable plant shall track its own daily PM₁₀ ambient impact and the daily PM₁₀ ambient impacts of other plants owned by Fred Weber to ensure the combined daily PM₁₀ ambient impact from these plants does not exceed 45 µg/m³ of PM₁₀. Attachment B, or equivalent forms, shall be used for this purpose.

Table 2: Ambient Air Quality Impact Analysis of PM₁₀, 24-Hour Averaging Time

Operation	Ambient Impact Factor (µg/m ³ /ton)	Modeled Impact (µg/m ³)	*Background (µg/m ³)	NAAQS (µg/m ³)	Daily Production Limit (tons)
1. Solitary	0.00097	11.67	20.00	150.00	12,000
2. Concurrent (Same Owner)	0.00097	**	20.00	150.00	**
3. Concurrent (Separate Owners)	0.00097	11.67	134.91	150.00	12,000
4. Concurrent (Same and Separate Owners)	0.00097	**	105.00	150.00	**

* Background PM₁₀ level of 20.00 µg/m³ from haul roads and stockpiles, 118.33 µg/m³ from the operation of plants not owned by Fred Weber, Inc. during concurrent (separate owner) operations and 85.00 µg/m³ from the operation of plants not owned by Fred Weber, Inc. during concurrent (same **and** separate owners) operations.

** The operator(s) must balance production among concurrently operating plants, with the ambient impacts for each, such that NAAQS is not exceeded. Ambient impacts for other plants owned by Fred Weber can be obtained from the operators of these plants.

STAFF RECOMMENDATION

On the basis of this review conducted in accordance with Section (Section 5), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*, I recommend this permit be granted without special conditions.

Gerad Fox
Environmental Engineer

Date

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, dated January 26, 2009, received January 29, 2009, designating Fred Weber Inc. as the owner and operator of the installation.
- U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*, Fifth Edition.
- Southeast Regional Office Site Survey, received February 5, 2009.

Ms. Genevieve Bodnar
Environmental Manager
Fred Weber Inc. - PORT-0624
Route 1, Box 112
Annapolis, MO 63620

RE: New Source Review Permit - Project Number: 2009-01-042

Dear Ms. Bodnar:

Enclosed with this letter is your permit to construct. Please study it carefully. Also, note the special conditions, if any, 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 and with your amended operating permit is necessary for continued compliance.

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.

If you have any questions regarding this permit, please do not hesitate to contact Gerad Fox at the Departments' Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102, or by telephone at (573) 751-4817. Thank you for your time and attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Kendall B. Hale
New Source Review Unit Chief

KBH:gfk

Enclosures

c: Southeast Regional Office Regional Office
PAMS File: 2009-01-042

Permit Number: