

PERMIT BOOK

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director

www.dnr.mo.gov

JUL 15 2011

CERTIFIED MAIL: 70051820000233104275
RETURN RECEIPT REQUESTED

Mr. W. Steven Leus, Jr.
Plant Manager
Buzzi Unicem USA
PO Box 520
Cape Girardeau, MO 63702-0520

RE: New Source Review Temporary Permit Request - Project Number: 2011-06-022
Installation ID Number: 031-0021, Temporary Permit Number: 072011-008
Expiration Date: June 20, 2013

Dear Mr. Leus:

The Missouri Department of Natural Resources' Air Pollution Control Program has completed a review of your request to construct temporary rock-crushing, classifying, and conveying equipment at Buzzi Unicem USA, located in Cape Girardeau, Missouri. The Air Pollution Control Program is hereby granting your request to conduct this temporary operation at this location in accordance with Missouri State Rule 10 CSR 10-6.060(3).

In your letter, you requested a permit for an 800 ton per hour portable Lippmann 5165LP crusher powered by a 750 horse power diesel engine and a 440 ton per hour Metso LT1213S portable crusher powered by a 425 horse power diesel engine. This equipment will be brought on site to operate in place of the existing 1400 ton per hour crushing plant that was damaged by recent flooding. Once the existing crusher is repaired, Buzzi Unicem USA will operate it with the portable equipment in order to replenish stock piles. The temporary equipment is permitted to operate at the site for up to two years from the date this permit is issued.

The Metso LT1213S portable crusher is a self propelled unit; therefore its diesel engine is a nonroad engine and was not included in the emission calculations. Emissions were calculated using emission factors from AP-42 Section 3.4 "Large Stationary Diesel and All Stationary Dual-fuel Engines," October 1996 and Section "11.19.2 Crushed Stone Processing and Pulverized Mineral Processing," August 2004. The controlled emission factors for crushers, screens, and conveyors were used because the Lippmann crusher is controlled by spraybars and rock processed by the Metso crusher will be sprayed with water before processing. Emissions from the project are summarized in the following table.

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Table 1: Emissions Summary

Air Pollutant	De Minimis Level	Potential Emissions of the Application
PM	25.0	18.00
PM ₁₀	15.0	7.71
PM _{2.5}	10.0	2.34
SO _x	40.0	9.64
NO _x	40.0	76.39
VOC	40.0	1.96
CO	100.0	20.29
Total HAPs	25.0	0.04

The spraybars must be operated in accordance with the following conditions:

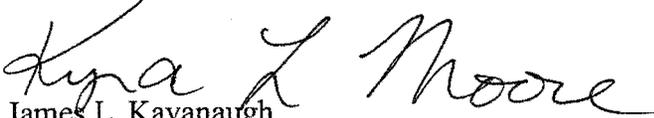
1. Buzzi Unicem USA shall install and operate wet spray devices on the Lippmann 5165LP crusher.
2. Buzzi Unicem USA shall water all rock processed by the Metso LT1213S portable crusher with at least 3,500 gallons of water every 3 hours while the plant is operating.
3. Buzzi Unicem USA shall record the amount of water applied and the hours of operation for the Metso LT1213S portable crusher and make those records available to Department of Natural Resources staff upon request.
4. Watering may be suspended during periods of freezing condition, when use of the wet spray devices may damage the equipment. During these conditions, Buzzi Unicem USA shall adjust the production rate to control emissions from these units. Buzzi Unicem USA shall record a brief description of such events.

You are still obligated to meet all applicable air pollution control rules, Department of Natural Resources' rules, or any other applicable federal, state, or local agency regulations. Specifically, you should avoid violating 10 CSR 10-6.170 *Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin*.

A copy of this letter should be kept with the unit and be made available to Department of Natural Resources' personnel upon verbal request. If you have any questions regarding this determination, please do not hesitate to contact Michael Mittermeyer at the departments' Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102 or by telephone at (573) 75 1-4817. Thank you for your time and attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM


James L. Kavanaugh
Director

JLK:mml

c: PAMS File: 2011-06-022
Southeast Regional Office