



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

DEPARTMENT OF NATURAL RESOURCES

www.dnr.mo.gov

MAY - 6 2015

Mr. Bruce Hamilton
Senior Environmental Engineer
Harbison-Walker Refractories Co.
1305 Cherrington Parkway, Suite 100
Moon Township, PA 15108

PERMIT BOOK

RE: New Source Review Temporary Permit Request - Project Number: 2015-03-106

Installation ID Number: 027-0001

Temporary Permit Number: **05 2015 - 003**

Expiration Date: July 15, 2015

Dear Mr. Hamilton:

The Missouri Department of Natural Resources' Air Pollution Control Program has completed a review of your request to conduct a trial run of calcined clay material at Harbison-Walker Refractories Co. - Fulton Rotary Kiln, located in Fulton, 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).

Harbison-Walker Refractories Co. plans to utilize existing equipment, along with an AMS HF portable screening unit, to perform a trial run for calcining raw clay. The screening unit will be used to screen formed green clay material prior to being processed through the rotary kiln. After the kiln, the material will be re-screened before being packaged in bulk bags. The green clay will be screened at 15 tons per hour, and the calcined product will be screened at 25 tons per hour. The trial will process a total of 750 tons of clay. The only piece of equipment that is currently unpermitted is the AMS HF portable screening unit, which will only be operated for the duration of this trial.

Harbison-Walker Refractories Co. is authorized to construct and operate subject to the following conditions:

1. Production Limitation

Harbison-Walker Refractories Co. must not process more than 750 tons of formed green clay material through the AMS HF portable screening unit for the duration of the trial period.



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Emissions for the project were calculated using raw clay screening emission factors (SCC 3-05-009-04) taken from the EPA's online emission factor database, WebFIRE. Potential emissions were calculated based on a total trial throughput of 750 tons of clay. Potential emissions from the project are summarized in Table 1 below.

Table 1. Emissions Summary (tons)

PM	PM ₁₀	PM _{2.5}
9.00	0.19	<0.01

Given that the potential emissions are well below 100 tons for each pollutant and ambient air quality standards are expected to be maintained, the proposed temporary permit is granted according to the provisions of Missouri State Rule 10 CSR 10-6.060(3). Subsequent notification should be made to the Air Pollution Control Program within two weeks once the trial run ends or the AMS HF portable screening unit is no longer located at the facility.

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 10-6.045 *Open Burning Requirements*, 10 CSR 10-6.220, *Restriction of Emission of Visible Air Contaminants*, 10 CSR 10-6.165 *Restriction of Emission of Odors*, 10 CSR 10-6.170 *Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin*, and 10 CSR 10-6.400 *Restriction of Emission of Particulate Matter From Industrial Processes*.

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 Ryan Schott 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



Kyra L. Moore
Director

KLM:rs1

c: PAMS File: 2015-03-106
Northeast Regional Office