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STATE OF MISSOURI Jeremiah W. (Jay) Nixon, Governor Joseph P. Bindbeutel, Acting Director
DEPARTMENT OF NATURAL RESOURCES

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FEB 20 2009

Mr. Shannon Lenker
General Manufacturing Manager,
Tamko Building Products
601 North High Street
Joplin, MO 64801

RE: New Source Review Permit Application - Project Number: 2008-12-052
 Installation ID: 097-0013, Expiration Date: November 6, 2009
 Temporary Permit Number: **022009-006**

Dear Mr. Lenker:

The Missouri Department of Natural Resources' Air Pollution Control Program has completed a review of your December 11, 2008 request to operate a temporary asphalt mixing and coating process located at 601 North High Street, Joplin, Missouri, in Jasper County. The Air Pollution Control Program is hereby granting your request to conduct this temporary operation according to Missouri State Rule 10 CSR 10-6.060(3), *Temporary Installation Permits*. Operation of the portable melters and temporary laminant applicator at this site shall not go beyond November 6, 2009.

According to the information provided in your letter dated December 11, 2008, two portable road maintenance melters and a temporary laminant applicator are needed for experimental purposes at the Tamko roofing products manufacturing facility. The experimental process will require mixing asphalt and ground limestone in the portable melters to produce a filled laminant. The ground limestone will be added to one of two 132 gallon melters through a manual loading process consisting of dumping bags of limestone into the open mixing vessel. The melters mix and heat the laminant to about 340°F. The laminant is then pumped to a coating station where it is applied in one-quarter inch wide strips to a fiberglass mat on a continuous roll to roll process.

Potential emissions are expected from 1) the combustion of diesel fuel in the engines of the portable melters, 2) the addition of ground limestone to the portable melters, and 3) the transfer of the hot asphalt and limestone mixture to the fiberglass substrate. The maximum hourly design rate for the engine on each melter was calculated to be 2.12 gallons of diesel fuel per hour. The maximum feed rate of limestone was determined by the applicant to be 0.105 tons limestone per hour. The maximum feed rate of asphalt was determined by the applicant to be 0.245 tons asphalt per hour. The emission factors used in this analysis were obtained from the Environmental Protection Agency (EPA) document AP-42, *Compilation of Air Pollutant Emission Factors*, Fifth Edition, Section 3.3 *Gasoline and Diesel Industrial Engines* (October 1996) and Section 11.1, *Hot Mix Asphalt Plants* (April 2004).



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Potential emissions were calculated assuming continuous operation between February 6, 2009 and November 6, 2009, which results in a maximum potential operating time of 6,552 hours. Potential emissions for this project are summarized in Table 1 below.

Table 1: Potential Emissions Summary (tons)

PM ₁₀	SO _x	NO _x	VOC	CO	HAPs
5.749	0.003	8.380	0.686	1.805	0.008

Given that the potential emissions are well below 100 tons, the request was made prior to the installation of the equipment, and ambient air quality standards are expected to be maintained; the proposed temporary permit is granted according to provisions of Missouri State Rule 10 CSR 10-6.060(3). Subsequent notification should be made to the Air Pollution Control Program once the portable melters and temporary laminant applicator are 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 also avoid violating 10 CSR 10-6.170, *Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin*; 10 CSR 10-6.220, *Restriction of Emission of Visible Air Contaminants*; and 10 CSR 10-5.160, *Control of Odor in the Ambient Air*.

A copy of this letter should be kept with the unit or at the nearest staffed facility and be made available to Department of Natural Resources' personnel upon verbal request.

If you have any questions regarding this permit, please do not hesitate to contact Kathi Jantz 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



for James L. Kavanaugh
Director

JLK:kjk

c: Mr. Steve Feeler, Compliance/Enforcement Section
Southwest Regional Office
PAMS File: 2008-12-052