

PERMIT BOOK



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

DEPARTMENT OF NATURAL RESOURCES

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MAY 05 2014

Ms. Michelle Ferguson
Sr. Environmental Manager
Holcim (US) Inc. - Ste. Genevieve Plant
2942 US Hwy 61
Bloomsdale, MO 63627

RE: New Source Review Temporary Permit Request - Project Number: 2014-04-044
Installation ID Number: 186-0044
Temporary Permit Number: **052014-002**
Expiration Date: June 30, 2014

Dear Ms. Ferguson:

The Missouri Department of Natural Resources' Air Pollution Control Program has completed a review of your request to conduct a trial of a dry hydrated lime injection system at Holcim (US) Inc. - Ste. Genevieve Plant, located in Bloomsdale, 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).

The lime slurry spray system that controls SO₂ (Permit No. 062004-005C, condition 2.(B)1) anytime an inline raw mill is down, has been plagued with design issues since it commenced operation. The applicant is preparing to invest a significant amount of capital to improve the existing system to improve its reliability, or consider other sulfur dioxide (SO₂) control options for conditions when the raw mills are down.

The applicant has an opportunity to work with Mississippi Lime to conduct a trial of a dry hydrated lime injection system, which is expected to provide the same level of control as lime slurry spray, but will eliminate all of the wear, freezing, pumping issues of the existing system. Overall, if the system works, it should be much more reliable and be less maintenance intensive than the existing system, while providing the same level of SO₂ control.

The trial will occur over an approximate two week period in which one raw mill will be periodically shut down and the hydrated lime system will be used instead of the existing lime slurry spray system. Testing will consist of injecting hydrated lime at two different points in the process, which have the appropriate temperature to promote the reaction of the hydrate with SO₂. Each injection point will be trialed individually with two grades of hydrated lime. The existing SO₂ continuous emission monitor will be used to determine the approximate control efficiency by collecting uncontrolled emissions data for a period of one-hour before and one-hour after each hydrated lime injection run.

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Holcim shall continue to meet all SO₂ emission limits, as specified in permit 062004-005C Special Condition (2)(B) during the trial. The existing limit slurry system shall remain in place and used as the control system for one side (361-RM1) of the raw mill gas stream. Holcim shall submit a report of the testing comparing the SO₂ of the hydrated lime injection system to the existing lime slurry spray system and receive approval from The Air Pollution Control Program prior to permanently switching systems.

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

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 Randy Raymond 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:rrk

c: PAMS File: 2014-04-044
Southeast Regional Office