

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

Jeremiah W. (Jay) Nixon, Governor • Mark N. Templeton, Director

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AUG 20 2009



PERMIT BOOK

CERTIFIED MAIL: 70051820000233104596
RETURN RECEIPT REQUESTED

Ms. Michelle Clary
CFO
Lifeline Foods, Inc.
2811 South 11th Street
St. Joseph, MO 64503

RE: New Source Review Temporary Permit Request - Project Number: 2009-07-068
Installation ID Number: 021-0016
Temporary Permit Number: 082009-010
Expiration Date: July 1, 2011

Dear Ms. Clary:

The Missouri Department of Natural Resources' Air Pollution Control Program has completed a review of your request to produce isobutanol at Lifeline Foods, Inc. located in St. Joseph, Missouri. The Air Pollution Control Program (APCP) 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).

Permission to construct/operate this pilot plant is granted provided that:

- Operation of this pilot plant at this site shall not go beyond July 1, 2011, without prior APCP approval. Should Lifeline Foods, Inc. wish to install a permanent system, a construction permit application and additional review by the APCP will be required.
- Production of isobutanol will not exceed 1,000,000 gallons for the life of this temporary permit. A record of the number of gallons of isobutanol produced shall be kept and maintained for the duration of this temporary permit.
- Lifeline Foods, Inc. shall route all exhausts containing volatile organic compounds (VOC) to the existing regenerative thermal oxidizer.

According to the information provided in an email dated August 5, 2009, Lifeline Foods, Inc. is proposing to operate an experimental process for the manufacture of fuel-grade Isobutanol, an advanced biofuel. The process will use fermentation processes similar to those used in the

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production of fuel-grade ethanol from corn. Existing corn handling equipment will be used for the handling of raw material. The resulting Isobutanol will be stored in drums and hauled offsite. No commercial sales of Isobutanol are associated with this project.

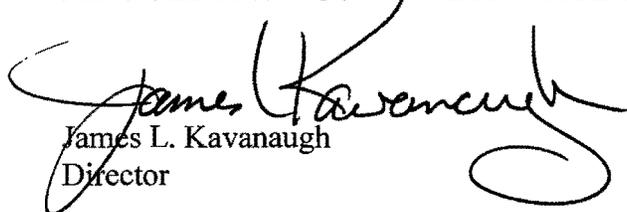
The main pollutant of concern from the proposed process is VOC. Based on continuous operation (8760 hours per year) and a production limit of 1,000,000 gallons of Isobutanol, the potential emissions of VOC are expected to be less than six tons per year. The operational requirements listed in this temporary permit are necessary so that the emissions of VOC from this pilot plant do not exceed 100 tons.

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 Restrictions*; 10 CSR 10-6.220, *Restriction of Emission of Visible Air Contaminants*; 10 CSR 10-6.170, *Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin*; 10 CSR 10-3.090, *Restriction of Emission of Odors*; and 10 CSR 10-3.060, *Maximum Allowable Emissions of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating*.

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 Emily Wilbur with the Department's 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


James L. Kavanaugh
Director

JLK:ewl

c: PAMS File: 2009-07-068
Kansas City Regional Office