

Illinois Environmental Protection Agency
Bureau of Air, Permit Section
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Project Summary for an Application from
Knead Dough Baking Company, Inc. for Revision of the
Federally Enforceable State Operating Permit (FESOP) for
556 St. James Gate, Bolingbrook, Illinois

Site Identification No.: 197415AAH
Application No.: 94100116

Schedule

Public Comment Period Begins: November 27, 2009
Public Comment Period Closes: December 27, 2009

Illinois EPA Contacts

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PROJECT SUMMARY

I. Introduction

Knead Dough Baking Company, Inc. has applied for revision of its Federally Enforceable State Operating Permit (FESOP) for its Bolingbrook plant to establish participation of the source in the Emission Reduction Market System (ERMS). This plant requires an air pollution control operating permit because it is a source of emissions. The Illinois EPA has prepared a draft of the revised permit that it would propose to issue for the plant. However, before issuing the permit, the Illinois EPA is holding a public comment period to receive comments on this proposed action and the terms and conditions of the draft permit that it would propose to issue.

II. Source Description

Knead Dough Baking Company produces bread dough products. The dough is prepared by mixing flour, water, yeast, salt, and sugar. The dough is automatically shaped and then goes to proof boxes for leavening, i.e., the yeast causes the dough to rise. The dough is then baked in the gas fired ovens, packaged and shipped. Knead Dough operates four conveyORIZED ovens and one rack oven for research and development of product.

All flour handling processes are controlled with various types of control equipment: baghouses, filters and cyclones.

III. Emissions

The principal air contaminant emitted from the facility is volatile organic material (VOM) ethanol, which is generated during the dough leavening and then emitted during baking. The rate of ethanol emission depends on the amount of leavening, which is a function of dough temperature, percentage of yeast and fermentation time.

The secondary air contaminants emitted during baking process is particulate matter (PM), which is released during flour handling operations, and products of natural gas combustion in boilers and ovens: nitrogen oxides (NO_x) and carbon monoxide (CO).

IV. Applicable Emission Standards

All emission sources in Illinois must comply with the Illinois Pollution Control Board's emission standards. The Board's emission standards represent the basic requirements for sources in Illinois. The Board has standards for sources of volatile organic material, particulate matter, nitrogen oxides and carbon monoxide emissions. This site readily complies with all applicable Board standards.

V. Proposed Permit

The conditions of the proposed permit contain limitations and requirements to assure that this facility will be operated as a non-major source. The permit sets limitations on the production rate of the baking lines and ovens, yeast content and fermentation time of the dough. These limitations are consistent with the historical operation and capacity of the facility.

The permit conditions also establish appropriate compliance procedures, including inspection practices, recordkeeping requirements, and reporting requirements. The Permittee must carry out these procedures on an on-going basis to demonstrate that the facility is operating within the limitations set by the permit and are properly controlling emissions.

VI. Request for Comments

It is the Illinois EPA's preliminary determination that the facility meets all applicable state and federal air pollution control requirements, subject to the conditions proposed in the draft permit. The Illinois EPA is therefore proposing to issue a permit with federally enforceable limits for this operation.

Comments are requested on this proposed action by the Illinois EPA and the proposed conditions on the draft permit. If substantial public interest is shown in this matter, the Illinois EPA will consider holding a public hearing in accordance with 35 Ill. Adm. Code Part 166.