



STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION

PAUL R. LEPAGE
GOVERNOR

PATRICIA W. AHO
ACTING COMMISSIONER

McCain Foods USA, Inc.)
Aroostook County)
Easton, Maine)
A-436-77-1-M)

Departmental
Findings of Fact and Order
Air Emission License
Minor Revision

After review of the air emissions license amendment application, staff investigation reports and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A., Section 344 and 590, the Department finds the following facts:

I. REGISTRATION

A. Introduction

FACILITY	McCain Foods USA, Inc. (McCain)
PART 70 LICENSE NUMBER	A-436-70-A-I
LICENSE TYPE	06-096 CMR 115, Minor Revision
NAICS CODE	311411
NATURE OF BUSINESS	Frozen Potato Products
FACILITY LOCATION	Easton, Maine
DATE OF MINOR REVISION ISSUANCE	June 30, 2011

McCain Foods USA, Inc. (McCain) of Easton, Maine is licensed to operate emission sources associated with their potato processing facility. This minor revision addresses the installation and operation of an energy recovery system (ERS) on their specialty fryer line, similar to the ERS which was previously licensed and installed on their Prime 2 Fryer Line.

B. Application Classification

McCain's application was submitted pursuant to the minor revision procedures in 06-096 CMR 115 (as amended). The application for McCain does not violate any applicable federal or state requirements and does not increase emissions of any pollutant. Therefore, this modification is determined to be a minor revision for New Source Review under 06-096 CMR 115 (as amended) and has been processed as such.

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II. DESCRIPTION OF MINOR REVISION

Energy Recovery System (ERS)

McCain is proposing to install and operate an energy recovery system (ERS) on their specialty fryer line and is currently planning to install the ERS this summer. The ERS will incorporate heat exchange equipment to reduce energy costs by extracting heat from the specialty fryer line's exhaust air stream before it is vented outside. The energy being recovered will be used in other areas of the potato processing plant. The air emissions from the specialty fryer will not be affected by this change, and the existing rotoclone will continue to be used to reduce particulate emissions.

As part of the ERS project, McCain is proposing to replace the current stack for the specialty fryer with a new stack which will have the same diameter and stack-top height above ground. However, the new stack will be located closer to the specialty fryer line, approximately 118 feet to the west northwest of the current stack's location. Keeping the stack in its existing location would require more than 120 feet of additional duct work not needed for the process. Having the additional ductwork would require more horsepower and create a greater pressure drop in the system. These would combine to create a drag on the performance of the equipment and reduce the energy savings of the system.

As mentioned above, there will be no change in the emissions from the specialty fryer line with installation of the ERS. The temperature of the exhaust gas is expected to be reduced from approximately 158° F to 100° F with operation of the ERS. Any air quality impacts due to the stack relocation and temperature drop from this project are not considered significant enough to reopen air dispersion modeling. Also, a condenser will be fitted with a bypass that could be used in the event of fouling of the system. The fryer vapor would go directly to the rotoclone inlet, with the vapor temperature remaining the same as it is currently. There will be no means provided to bypass the rotoclone.

Based on the information submitted by McCain, the Department approves McCain's request to install and operate the ERS on the specialty fryer line.

ORDER

Based on the above Findings and subject to conditions listed below, the Department concludes that the emissions from this source:

- will receive Best Practical Treatment,
- will not violate applicable emission standards, and

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- will not violate applicable ambient air quality standards, or increment standards either alone or in conjunction with emissions from other sources.

The Department hereby grants this minor revision, A-436-77-1-M, subject to the conditions found in Air Emission License A-177-70-A-I and subsequent amendments, in addition to the following conditions:

NEW CONDITION

(1) The following condition is new to Air Emissions License, A-436-70-A-I.

McCain is licensed to install and operate an energy recovery system (ERS) on their specialty fryer line. There are no changes to the existing requirements for specialty fryer line per Condition (16) of Air Emissions License A-436-70-A-I.

DONE AND DATED IN AUGUSTA, MAINE THIS 30th DAY OF June 2011.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: Melanie [Signature] for
PATRICIA W. AHO, ACTING COMMISSIONER

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: May 2, 2011

Date of application acceptance: May 16, 2011

Date filed with Board of Environmental Protection: _____

This Order prepared by Edwin Cousins, Bureau of Air Quality



