



STATE OF MAINE

DEPARTMENT OF ENVIRONMENTAL PROTECTION

ANGUS S. KING, JR.
GOVERNOR

EDWARD O. SULLIVAN
COMMISSIONER

FMC Corporation-Food Ingredients Division)	Departmental
Knox County)	Findings of Fact and Order
Rockland, Maine)	Air Emission License
A-366-72-H-A)	Amendment #5

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

I. REGISTRATION

A. Introduction

FMC Corporation - Food Ingredients Division of Rockland, Maine has applied to amend their Air Emission License, permitting the operation of emission sources associated with their hydrocolloids manufacturing facility.

FMC Corporation was issued Air Emission License A-366-72-A-R on February 23, 1986. This license was subsequently amended on January 18, 1990, June 21, 1990, February 12, 1992 and again on October 24, 1994. A renewal to the existing license is pending.

FMC Corporation has submitted an amendment application to the Department to include NO_x RACT into their existing license pursuant to Maine Air Regulations Chapter 138.

B. Emission Equipment

FMC Corporation is authorized to operate the following NO_x emission units:

Fuel Burning Equipment

Equipment	Maximum Capacity (MMBtu/hr)	Fuel Type, % Sulfur	Maximum Firing Rate (gal/hr)	Proposed Control Equipment	Stack #
Boiler #3	85.6	#6, 2.0%	563	low NO _x burner	5-6
Boiler #4	48.6	#6, 2.0%	320	low NO _x burner	5-6
Boiler #5	48.4	#6, 2.0%	318	none	5-6

Serving Maine People & Protecting Their Environment

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PORTLAND
312 CANCO ROAD
PORTLAND, ME 04103
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FRESQUE ISLE
1235 CENTRAL DRIVE, SKOWHEGAN PARK
FRESQUE ISLE, ME 04753
(207) 764-0477 FAX: (207) 764-1527

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

The Department hereby grants Air Emission License A-366-72-H-A, subject to the following conditions :

- (1) Employees and authorized representatives of the Department shall be allowed access to the premises of the licensee during business hours, or any time during which any of the licensed emissions units are in operation, and at such other times as the Commissioner deems necessary for the purpose of performing tests, collecting samples, conducting inspections or examining records relating to emissions.
- (2) The licensee shall acquire a new or amended emission license prior to commencing construction of a modification.
- (3) The licensee shall comply with all applicable ambient air quality standards, emission standards, Department regulations and orders.
- (4) The licensee shall maintain sufficient records to accurately document compliance with emission standards, including visible emission, and license conditions and shall maintain such records for a minimum of 6 years. The records shall be submitted to the Department upon written request.
- (5) The licensee shall maintain records of malfunctions, failures, downtime, and any other change in operation of air pollution control apparatus or the emissions unit itself that would affect emissions. The licensee shall notify the Department within two working days (48 hrs.) of such occasions. Within 5 working days, the licensee shall submit a written report describing the cause, duration, remedial action, and steps to be taken to prevent recurrence of such malfunctions, failures or downtimes.

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(6) Approval to construct shall become invalid if the source has not commenced construction within 18 months after receipt of such approval or if construction is discontinued for a period of 18 months or more. The Department may extend this time period upon a satisfactory showing that an extension is justified, but may condition such extension upon a review of either the control technology requirements or the ambient air quality impact analysis, or both.

(7) The licensee shall perform stack testing and submit a written report within 90 days of receipt of notice to test from the Department, if visible emissions, equipment operating parameters, staff inspection, air monitoring or other cause indicate to the Department that equipment may be operating out of compliance with emission standards or license conditions. Such testing shall be conducted in accordance with 40 CFR Part 60 or other method approved or required by the Department. The licensee shall install or make provisions to install test ports that meet the criteria of 40 CFR Part 60, Appendix A, and test platforms, if necessary, and other accommodations necessary to allow emission testing.

(8) The licensee shall establish and maintain a continuing program for best management practices for suppression of fugitive particulate matter during any periods of construction, renovation, or normal operation which may result in fugitive dust and submit a description of the program upon request by the Department.

(9) The licensee shall maintain sufficient records and annually report to the Department, in a specified format, fuel use, operating rates, use of materials and other information necessary to accurately update the State's emission inventory.

(10) The granting of this permit is dependent upon and limited to the proposals and plans contained in the application and supporting documents submitted and affirmed to by the applicant. Any variation from the plans, proposals, and supporting documents must be reviewed and approved by the Department prior to implementation.

(11) Within 60 days receipt of a notification to test from the Department or EPA, or pursuant to any other requirement of this license to perform stack testing, the licensee shall perform stack testing in accordance with the Department's air emission compliance test protocol, and demonstrate compliance with the applicable emission standards. All testing performed pursuant to this condition shall be conducted under circumstances representative of the facility's normal process and operating conditions. Test results indicating emissions in excess of the applicable standards shall be evidence of emission violations subject to enforcement action for each operating day from the date of the test until compliance is demonstrated under normal and representative process and operating conditions. For any emission source whose stack test results yield an emission rate greater than the applicable standard, the licensee shall, within 30 days following receipt of such test results, retest the noncomplying emission source. Any such retesting shall be performed under circumstances representative of the facility's normal process and operating conditions.

(12) RACT Determination

A. The Department has determined RACT for boilers #4 and #5 to be an annual tune-up to meet the requirements of small boilers. Practical minimum excess air levels using the instrumentation and burner hardware are to be established during the initial tune-up and maintained during subsequent operation. Records of all tune-ups shall be kept according to Chapter 138 (3)L(2). The first tune-up shall be performed no later than May 31, 1996.

B. The Department has determined RACT for boiler #3 to be the installation of a low NO_x burner to control NO_x emissions.

(13) Additional Controls for Boiler #4

FMC also proposes to limit NO_x emissions beyond that required by Chapter 138 by installing an additional low NO_x burner to one of the smaller boilers. Boiler #4 will utilize a replacement low NO_x burner, model DFL-535 manufactured by the Peabody Engineering Corporation. With this installation boiler #5 will operate as back-up to boilers #3 and #4 with limited annual operating hours.

(14) Visible emissions from boilers #3, #4 and #5 each shall not exceed 30% opacity for more than 15 minutes in any continuous 3-hour period.

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- (15) FMC shall comply with the standards of NO_x RACT by July 31, 1995. As allowed by the NO_x Supplement to the General Preamble (Section 2.6.2) entitled Phase-in of Controls Beyond May 1995, the extension for compliance is due to the unavailability of equipment needed to install the low NO_x burners.
- (16) FMC shall perform NO_x emission stack testing in accordance with 40 CFR part 60 or other methods approved by the Department, on boiler #3 only, by May 31, 1996 with a written report of the NO_x emission demonstration to be submitted to the Department by June 30, 1996. Such stack testing shall be conducted every year thereafter by May 31 with a written report to be submitted to the Department by June 30. FMC shall notify the Department at least 30 days prior to the date testing is scheduled.
- (17) After the ~~second consecutive~~ annual stack test, FMC shall submit and propose a NO_x emission limitation that satisfies BPT by June 30, 1997. Following the Department's review and evaluation of the report, the license shall be amended to incorporate a NO_x emission limit established by the Department.
- (18) The licensee may apply to amend the license to reduce the frequency of stack testing upon successful compliance demonstration of two consecutive annual stack tests.
- (19) This amendment shall expire concurrently with Air Emission License A-366-72-A-R.

DONE AND DATED IN AUGUSTA, MAINE THIS 7th DAY OF February 1996.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: James P. Prosky
EDWARD O. SULLIVAN, COMMISSIONER

PLEASE NOTE THE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application March 9, 1995

Date of application acceptance March 14, 1995

Date filed with the Board of Environmental Protection

This Order prepared by Stephanie L. Carver, Bureau of Air Quality Control

