

PROJECT SUMMARY

I. Introduction

Griffith Laboratories U.S.A., Inc. currently operates under federally enforceable state operating permit (FESOP) which was issued five years ago and is close to its expiration date. The company requested a renewal of their FESOP to continue to operate as non-major source for the purposes of the Clean Air Act Permit Program (CAAPP). Production and emission limitations, as well as monitoring and recordkeeping conditions contained in the FESOP have prevented the facility from being a major source and will assure this status in the future. These conditions would be enforceable by both the State of Illinois and USEPA.

II. Source Description

Griffith Laboratories receives dry protein containing raw materials in bulk, which are pneumatically conveyed to storage silos, than to weight hoppers and, finally, to the batch cookers. In the batch cooker hydrochloric acid breaks down the raw materials to extract protein from them. After cooking protein containing solution is filtered and decolorized. Final steps of production process are water evaporation in the spray dryer and packaging of dry product.

III. Emissions

The principal air contaminants emitted from the facility are Particulate Matter (PM), volatile organic materials (VOM) and Hazardous Air Pollutant (HAP), hydrochloric acid (HCl). Emission of Particulate Matter occurs during the handling of dry raw materials and from spray dryer. Significant part of PM emissions is represented by particles with aerodynamic diameter of 10 microns or less (PM-10).

As a result of chemical break-down of protein sources volatile organic material, acetic acid, is also emitted from the production equipment.

Emission of hydrochloric acid occurs on all stages of its usage: from storage tanks to batch cookers and spray dryer.

Emissions from the natural gas combustion equipment are predominantly represented by Nitrogen Oxides (NOx) and Carbon Monoxide (CO) emissions.

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 particulate matter and volatile organic materials. 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 usage of raw materials and production rate of final product. 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.