

PROJECT SUMMARY

I. Introduction

A construction permit application has been submitted by Caterpillar, Inc. located in East Peoria, Illinois. This application is for the Paint Before Assembly (PBA) Project. The conditions in the proposed permit for the project are based on the project not being a major modification under 40 CFR 52.21, Prevention of Significant Deterioration (PSD). The proposed permit conditions include production limitations, emission limitations, recordkeeping requirements, and reporting requirements.

II. Source Description

Currently, the plant assembles most of a tractor and then paints the tractor. The paint before assembly project entails installation of several new coating lines which would be used to coat tractors and tractor parts prior to assembly. This method would reduce the amount of paint applied to each tractor, improve overall paint quality, and improve worker safety.

Several types of coating operations will be used to coat the tractor including powder painting, e-coat, and conventional liquid coat.

This project replaces all existing production coating operations at the plant (i.e., Buildings LL and SS) except the coating operations in Building KK. Coating operations in Building KK are not affected by this project.

The changes to the permit would allow an increase in coating usage, which would result in an increase in HAP emissions; however, the HAP emission will continue to be limited below the major source levels.

Caterpillar is located in East Peoria, Illinois, Tazewell County. Tazewell County is designated as attainment for all pollutants.

III. Emissions

The new coating lines being installed as part of this project will result in a significant increase in emissions, i.e., the emissions exceed 40 tons per year of volatile organic material. As a consequence, the source has elected to perform a netting exercise such that the project does not constitute a major modification of the source for purposes of the federal PSD program. The netting exercise involves an evaluation of emission increase or decreases which have occurred over a contemporaneous time period. This netting exercise results in an emission rate which is less than the significant emission rate established by the federal PSD program.

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. 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 source will not be considered a major modification for purposes of the federal PSD program. The permit sets limitations on coating usage and VOM emissions.

The permit conditions also establish appropriate compliance procedures, including 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.

VI. Request for Comments

It is the Illinois EPA's preliminary determination that the this project 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 construction permit for this modification.

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.