

## PROJECT SUMMARY

### I. Introduction

A construction permit application has been submitted by Caterpillar Inc. - East Peoria ("Caterpillar") for modifications to their existing LL Main and LL E-Coat coating operations. The limits in this permit prevent the project from being a major modification of the source so that a Prevention of Significant Deterioration (PSD) Permit is not required. The proposed limits would be accompanied by recordkeeping and reporting requirements to assure that the project is not a major modification.

### II. Source Description

This facility produces track-type tractor components and assemblies for earth moving equipment. Track-type tractor and transmission components including machined parts, engines, hydraulic components, and electronics controls and systems are shipped to the facility for inclusion in the assembly process. Raw materials including steel plate, bar stock, castings, and forgings are also delivered to the facility and processed into completed sub-assemblies that are supplied to the final assembly process. Operations include shot blasting, metal forming, machining, heat treating, and coating. Following final assembly, the track-type tractors and transmissions are painted prior to shipment.

Caterpillar is located in East Peoria, Illinois, Tazewell County. Tazewell County is designated as attainment for all pollutants. Caterpillar is requesting a construction for modifications to their existing LL Main and LL E-Coat coating operations.

### III. Emissions

The source has addressed the applicability and compliance of 40 CFR 52.21, Prevention of Significant Deterioration (PSD). The limits in this permit ensure that the modification to the LL Main and LL E-Coat coating operations does not constitute a major modification pursuant to these rules (i.e., less than 40 tons per year of volatile organic material (VOM)).

Emissions and operation of the LL Main and LL E-Coat coating operations will be limited to the following:

<u>Material</u>	<u>Material Usage</u> <sup>1</sup>		<u>VOM Content</u> (Lbs/Gal)	<u>VOM Emission</u>	
	(Gal/Mo)	(Gal/Yr)		(Tons/Mo)	(Tons/Yr)
Prime Coat <sup>2</sup>	2,026	12,156	3.5	3.55	21.27
Top Coat <sup>2</sup>	478	2,867	4.3	1.03	6.16
Clean-up Solvent	1,073	6,435	---	3.89	<u>23.36</u>
				Total:	<u>39.90</u>

<sup>1</sup> Usage includes material shipped off-site for reclamation or disposal.

<sup>2</sup> As applied

### 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 VOM. 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 project will not be considered a major modification pursuant to the PSD rules. The permit sets limitations on material usage, VOM content and VOM emissions.

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 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.