

Illinois Environmental Protection Agency  
Bureau of Air, Permit Section  
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Project Summary for a  
Construction Permit Application from  
Marathon Petroleum Company LLC for a  
Modification to the Gasoline Desulfurization Unit Project  
at the Existing Refinery in  
Robinson, Illinois

Site Identification No.: 033808AAB  
Application No.: 03030085

Illinois EPA Contacts:

Permit Analyst: Jason Schnepf  
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Important Dates:

Application Received: January 19, 2007  
Comment Period Begins: September 13, 2007  
Comment Period Closes: October 13, 2007

## PROJECT SUMMARY

### I. INTRODUCTION

A construction permit application has been submitted by Marathon Petroleum Company LLC ("Marathon") for a revision to the Gasoline Desulfurization Unit (GDU) project. In July 2003, Marathon was issued a permit for the GDU project which would enable the refinery to produce low sulfur gasoline as required by federal regulation "Tier 2 Motor Vehicle Emissions Standards and Gasoline Sulfur Control Requirements". Since then, Marathon has discovered that the actual component (valves, flanges, etc.) count is greater than what was permitted. The purpose of this permit revision is to increase the permitted emissions for components and to show that the project does not trigger the requirements for Prevention of Significant Deterioration (PSD) (40 CFR 52.21) by demonstrating the net emissions increase for the project is less than significant. The construction permit would have federally enforceable limitations on the affected emission units. The proposed limits would be accompanied by recordkeeping, monitoring, reporting and testing requirements.

### II. SOURCE DESCRIPTION

Marathon operates a petroleum refinery located in Robinson, Illinois, Crawford County. Crawford County is designated as attainment for all pollutants. The GDU project allows the refinery to produce lower sulfur gasoline, as required by the USEPA Tier 2 gasoline sulfur requirements. Reduced sulfur in the fuels will be accomplished by making various changes at the refinery including adding a new Gasoline Desulfurization Unit to remove sulfur from gasoline.

### III. EMISSIONS

The VOM emission for this project exceed 40 tons per year; however, as shown in Attachment 2 of the draft permit, the net increase in VOM emissions will be less than significant. Accordingly, the project would not be a major modification pursuant to the federal rules for Prevention of Significant Deterioration (40 CFR 52.21).

### 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 nitrogen oxides, carbon monoxide, volatile organic material, sulfur dioxide, and particulate matter. 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 would not be a major modification pursuant to the federal rules for PSD. The permit sets

limitations on nitrogen oxides, carbon monoxide, volatile organic material, sulfur dioxide, and particulate matter emissions.

The permit conditions also establish appropriate compliance procedures, including inspection practices, recordkeeping requirements, reporting requirements, and testing 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 revised permit with federally enforceable limits for this GDU project.

Comments are requested on this proposed action by the Illinois EPA and the proposed conditions on the draft permit.

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