

PROJECT SUMMARY

I. Introduction

A construction permit application has been submitted by CITGO for a Catalytic Reformer Optimization Project. As part of this project, the Unit 114 Hydrotreater burners (Burners 114B-1, 114B-2 and 114B-3) will be replaced with burners of the same size resulting in restored capacity. The Unit 116 No. 2 Catalytic burners (Burners 116B-1, 116B-2, 116B-3, and 116B-4) will be replaced with burners of the same size resulting in restored capacity. The replacement burners on 116B-1 and 116B-2 will be ultra-low NO_x. The conditions in the proposed permit for the project are based on the project not being a major modification under 35 IAC Part 203, Major Stationary Sources Construction and Modification (MSSCAM) and 40 CFR 52.21, Prevention of Significant Deterioration (PSD). The proposed permit conditions include emission limitations, monitoring requirements, recordkeeping requirements, reporting requirements and testing requirements.

II. Source Description

CITGO operates a petroleum refinery located in Lemont, Illinois, Will County. Will County is designated as attainment for all pollutants except ozone, which is designated as severe nonattainment for the one hour ozone standard and moderate non attainment for the eight hour ozone standard.

Unit 114 and 116 will have restored capacity as a result of this project, thus the capacities to process naphtha will increase in U114 and U116. The net increase in capacity will be offset by the shutdown of U123. Therefore, this permit does not authorize a net increase of hydrotreater capacity.

Emissions from this project will result from the combustion of fuel in process heaters and from fugitive leaks associated with new components.

III. 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, nitrogen oxides, carbon monoxide, sulfur dioxide and particulate matter. This site readily complies with all applicable Board standards.

IV. Proposed Permit

The conditions of the permit would contain limitations and requirements that are intended to assure that this project will not trigger the requirements of MSSCAM and PSD. The permit conditions establish appropriate compliance procedures, including monitoring

requirements, recordkeeping requirements, reporting requirements and testing requirements. The Permittee must carry out these procedures on an on-going basis to demonstrate that the refinery is operating within the limitations set by the permit.

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

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