

Sunoco Refinery

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Naphtha Project:

In 2006, Sunoco Refinery signed an agreement with the U.S. EPA and Ohio EPA that required Sunoco to invest money toward pollution control and expansion which allows Sunoco to increase its refining capacity while adding air pollution control equipment. Sunoco plans to modify two crude units and the fluid catalytic cracking unit to allow additional production of petroleum products, including gasoline and distillates. The additional pollution controls will result in significant reductions in nitrogen oxides and sulfur dioxide emissions from the facility. Phase I of this expansion which was the Naphtha Simplification project, was completed in September 2007. This project allowed the refinery to expand its ability to process the light end portion of crude and install an additional Naphtha hydrotreater. This increased refinery production of gasoline and jet fuel.

The second phase of the expansion concentrated on the Fluid Catalytic Cracker (FCC), the Plant 3 crude unit, the alkylation unit and the sulfur recovery unit.

Project Scope:

IPS was responsible for the installation of all the new equipment, which included numerous pumps, vessels, fin fan exchanger and shell/tube heat exchangers. In addition to the new equipment, and existing reactor was refurbished and a new catalyst was installed. An existing heater was demo'd and replaced. Scope included removal of existing heater, installation of burners, burner piping/management system, heater instrumentation and process piping. Along with the new equipment, IPS was responsible for all of the site preparation, foundations and structural steel.



Project Duration: 10 Months
Project Cost: \$40 Million

REFINERY

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