



Project Profile

Pasadena Refining System, Inc.

Pasadena, Texas

\$ 1,500,000

Completed June 2010



Client Overview

Located on the Houston Ship Channel, Pasadena Refining System, Inc. (PRSI), a subsidiary of Petrobras America, is an independent refiner and marketer of petroleum products; their products include petrochemical feedstock with a related crude oil capacity of just over 100,000 barrels each day.

Project Overview

The single story 2,100 square foot facility included three covered security lanes and is one of the first along the ship channel built to support Homeland Security requirements for plant security adjacent to waterway access.

The design-build project included the construction of a building with a bullet proof exterior and visitor credentialing, along with a vehicle access security location with three drive-through lanes for vehicle inspection. The building will house video surveillance and radar surveillance systems for all plant operations and was designed to be completely self contained and 'unassailable' in the event of terroristic or other threats. The building was constructed so outside air can be completely closed to prevent any contaminant from reaching the occupants; power is completely redundant with a self contained generator within the secure compound.



The external services were housed underground and under concrete. The HVAC for the facility was designed so the critical areas have redundancy. This is one of the first facilities in the country built under the new Homeland Security Guidelines for plant security, the same set of directives that created the Transportation Workers Identification Card system or "TWIC" card system and, because this is one of the first facilities, there was no history of other projects to use as a guideline. It was vital for each portion of the design to be carefully thought through in order to ensure that the delivered product would meet the requirements of Homeland Security. LCS' daily operations required a very high level of detail to ensure the integrity of the finished product will withstand attack or assault.



Project Team

Project Manager: Dane Kitrick

Project Engineer: Chris Barrow

Superintendent: Mike Cody

Architect: Redburn Architects - Ray Redburn

