

Title: IPC of processing units for the Puerto la Cruz Refinery

Date: September 1983 – April 1985

Scope:

To perform the Front-End, Detailed Engineering, Procurement, Construction and Start-Up, in accordance with international petroleum industry standards and practices and general, accepted engineering and project management principles. A PDS 3D model of the facilities was the central feature in the physical plant design and main source of fabrication and construction data and drawings, together with a global communication network.

Project Description:

Expansion and modernization of the Puerto La Cruz PDVSA Refinery, to comply with future regulations on gasoline and diesel, maximizing the production of high octane gasoline components, minimizing the impact on the environment. The project includes the addition of the following: Naphtha Splitter, Heavy Naphtha Hydrotraeter, Catalitic Reformer, LPG Treatment & Fractionator, Diesel Hydrotreater, Sour Water Stripper, Fuel Gas Amine Treater, Amine Regeneration, Sulfur Recovery / Tail Gas, and Utilities and Interconnecting Piping.

Location:

Puerto La Cruz Refinery, Anzoátegui, Venezuela.

Client:

Petróleos de Venezuela, S.A. (PDVSA)

Description of Client:

Petróleos de Venezuela, S.A. (PDVSA) and its subsidiaries, is a corporation owned by the Bolivarian Republic of Venezuela, subordinated to the Venezuelan State. The main functions of PDVSA include planning, coordinating, supervising and controlling the activities of its companies both in Venezuela and abroad, in the areas of exploration, production, refining and the commercialization of crude oil and its derivatives.

Challenges:

Establish a consortium of four companies to undertake the project in global lump sum modality and work efficiently in multi-office mode in different countries.

Vepica solutions:

Participate from an early stage in the project with the different offices established to develop the project outside of Venezuela.

Reinforce the work team in PDS 3D and update the equipment to work with maximum efficiency in the development of the shared model.