

Title: Sweetening – Condensate Stabilizer and Hydrocarbon Fractioning Plant (104.000 bdp) at CPG Cactus

Date: 2013-2015

Scope: EPC

Location: Mexico

About PEMEX:

Mexico's state oil company Pemex is engaged in the exploration, production, transportation, refining, storage and sale of hydrocarbons and derivatives. Its products include petrochemicals, natural gas, liquid gas, sulphur, gasoline, kerosene and diesel. The company was founded in 1938 and is based in Mexico City, Mexico.

Executive Summary:

Vepica and its three partners (Linsday C.A, Pyecsa SA de CV y Tordec SA de CV) formed a consortium to execute this project. Vepica was responsible for producing the validation of the Basic Engineering for process and auxiliary services, development of detail engineering, international procurement, shop and field inspection and project management. Additionally, Vepica provided support throughout the project execution, field engineering during construction, commissioning and start-up.

Challenges:

- Coordination of several stakeholders from different countries and different cultures (PEMEX Oil and Gas, a National Mexican Company / numerous providers of main equipment from USA, Germany, Japan and Mexico, in a fast track schedule frame.
- Consortium integrated by professionals from three countries and four different companies, with different corporate cultures.
- Complex Interfaces with the existing and in operation facilities.
- A large change of scope during a fast track execution for a project with commitments with a third company, which was a client of PEMEX.
- Flexibility to accommodate client needs and changes in the execution plan due to operational requirements.
- Unexpected labor strikes during the execution
- Exchanged rates variances.

Vepica Solutions:

The project has been executed under a multisite philosophy, developed and coordinated by our office in Houston, sharing work and technical expertise among Vepica's offices in USA and Venezuela and the satellite office at site.

To facilitate the work execution and to reduce the interferences during the construction stage, a laser scanning of the existing facilities was implemented in order to properly identify tie-ins locations and configurations and to facilitate the constructability studies previous the construction.

The project had several teams working at the same time in the design of specifics areas and further projects activities during procurement, construction and the start-up, providing technical solutions and skilled professionals properly fitted for the project needs.

The direct labor manage at site was a key issue during the construction and a lot of effort and coordination was invested to reduce the impact of the strikes and the imposed working time schedules in order to reduce the impact over the project schedule