

EPC contract for upgrading 122 MBPSD of 8.2° API extra heavy crude oil to 110 MBPSD of 15.2° API upgraded crude, including a 3 MM BBLs tank farm, developed in consortium with (JGC), a Japanese company, as the leading partner

Vepica's scope of work included:

- Detailed design in 3D PDS for a naphtha hydrotreater (6,500 BPSD), hydrogen purification plant, utilities and offsite
- Local procurement of 53 pieces of equipment and bulk
- Construction supervision and support, commissioning and startup support

Total Vepica's man-hours: 435,000 (235,000 in detailed engineering and local procurement plus 200,000 in construction support)

OPERADIORA CERRO NEFRO. A joint Ventures between Exxon Mobil from USA, PDVSA from Venezuela and Veba Oel from Germany, founded in 1997 to develop and build a world-scale project upgrader on the eastern coast of Venezuela.

## EXECUTIVE SUMMARY

## CHALLENGES

- Fast track project with a multi-office (Japan-Caracas-Site) execution strategy.
- Multicultural team in an integrated organization
- Site MP availability, because several projects in the area in execution at the same time
- First project executed 100% in PDS

## THE CLIENT

## SOLUTIONS

- Implementation of very detailed plan and strategy to comply with the overall fast track schedule, considering the use of a new design platform (PDS). The plan included modularization and prefabrication maximization.
- Assignment of additional projects engineers and interface coordinator at different offices to expedite and improve the execution
- Dedicated IT communication line between different locations and offices which allow the project team to work at least 16 MH per day.
- Special calendar and MH schedule for construction. 210 MH per week.
- Special payment considerations for LLI

# Cerro Negro Oil Upgrader

EPC Venezuela