

Title: 200 MMSCFD gas compression at Jusepín Complex

Date: 2013-2014

Scope: EPC

Location: Venezuela

About PDVSA:

Venezuela's state oil company Petróleos de Venezuela S.A. (PDVSA) is engaged in the areas of oil and natural gas exploration, extraction, refining, transportation and sales. The company carries out E&P activities in Venezuela and also has refining and marketing operations in the Caribbean, Europe and the US through its Citgo marketing and refining arm. The company also has offices in Argentina, Brazil, Cuba, UK and Holland.

Executive Summary:

At the Furrial Oil field located in Monagas State, North-East Venezuela, Vepica is developing the EPC for one of the largest onshore gas compression stations in the country. The new facilities have a nominal capacity of 200 MMSCFD @60 psig (suction pressure header) and 1300 (discharge pressure header).

Jusepin 200 has been using gas turbine driven centrifugal compressors: 4 trains for 200 MMSCFD, with 2 one-stage low pressure trains (60 to 250 psig) and 2 two stage high pressure trains (250 to 1300 psig). Each train is composed of centrifugal compressors (STC-SV) driven by gas turbines (SGT400).

Challenges:

- Developing an EPC in the country's current circumstances with high inflation, lacking of most of the construction materials required to complete the project.
- Interface coordination between the stakeholders on-site. Client, communities, unions, other contractors and subcontractors.
- Several changes were introduced by the client and executed and handled by us, almost duplicating the original scope of work.
- Interacting with two clients at the site. PDVSA Gas and PDVSA IP

Vepica Solutions:

A very strong organization with experienced and highly-qualified personnel was implemented on-site to support the operation, to facilitate interaction with third parties and to improve the project's results.

Maintaining Caracas engineering team support until the end of the project in order to facilitate design changes and their implementation.

Supporting our subcontractors technically and financially, in order to fulfil the increase in scope and project schedule requirements.

Due to the problem with local material supply, several actions were implemented not only to identify more local suppliers or to segregate some PO's, but also by dealing with our client to request the possible loan of some specific material, and/or by using our international procurement support, including the China office, to mitigate the impact, caused by the delay in obtaining the required material, on construction.