

ARROW ENERGY / CPECC WDS JV

PROJECT: DAANDINE EXPANSION PROJECT CENTRAL GAS PROCESSING FACILITY STRUCTURAL, MECHANICAL AND PIPING

LOCATION: DALBY, SURAT BASIN QLD

VALUE: \$10.5 MILLION INCL.

IN BRIEF

Contracted by CPECC WDS Joint Venture (JV) in 2015 to complete the installation of civil, structural, mechanical, piping, electrical and instrumentation scope of works for the 3 compressor expansion of the Arrow Energy Daandine Central Gas Processing Facility (CGPF) near Dalby in Queensland.

Pipemech worked with CPECC WDS JV in the lead up to site mobilisation to finalise the scope of work and installation methodology which included a complex, time constrained plant shut down to tie in the 3 new compressor installations.

CUSTOMER BENEFITS

Upon Contract Award Pipemech quickly mobilised its experienced management, supervisory and labour teams to undertake a rapid ramp up to full production and efficiency at the CGPF site initially managing and driving the completion of the civil works in order to allow SMP & E&I works to commence.

Pipemech further assisted Clough Amec JV (CAJV) with the inspection and reporting of progress on the overseas fabrication packages.

Pipemech were able to develop and successfully implement a methodology that took account of the restricted site working area and weight of the new compressors using a heavy lift 'lock and lift' system.

As part of the SMP and associated shut down planning Pipemech assessed and provided options for the most cost and schedule effective means of undertaking hydro testing of the works to CAJV and Arrow Energy.

Pipemech successfully completed the SMP elements of scope required on time during the CGPF shut down allowing Arrow Energy to reintroduce gas to the plant as planned with all works being performed in compliance with the Arrow Energy isolation permitting requirements. The scope of work completed during the shutdown included;

- + Tie in piping connections (both mechanical and welded) of compressors and vendor equipment
- + Hydrostatic testing and drying of piping systems
- + Coordination of all Non Destructive Examination
- + Night shift work providing 24 hour operations



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CUSTOMER BENEFITS cont.

Following the completion of the CGPF shutdown, Pipemech's team moved into the completion and pre-commissioning phase of works at the CGPF which was heavily reliant on the Pipemech in-house developed innovative weld traceability software package.

Pipemech have also been able to assist CPECC WDS JV with completion of discrete scope on the Production Facilities / Gathering elements of the project in addition to undertaking the procurement of materials, plant and suppliers to ensure a successful project outcome for Arrow Energy.

TECHNICAL FEATURES

- + Receipt and installation of 3 x Ariel JGC/6 compressors and coolers
 - Main Skid – 120T
 - Wing Skid #1 – 20T
 - Wing Skid #2 – 19T
 - Process Gas Air Cooler – 25T
 - Engine Air Cooler – 14T
- + Receipt and installation of Scrubber, TEG, Glycol, Oil, Fuel Gas, LP Flare, Water Processing and Compressed Air vendor skid packages
- + Installation of interconnecting process pipework, valves and piping supports
- + Installation of new gas coalescer
- + Erection of 2 x compressor buildings and gantry cranes
- + Preparation and submission of project execution and handover documentation
- + Hydrostatic testing and drying of piping systems
- + Management of the Completions process and plan for MC, PC and SOF for the work.

