

## ARROW ENERGY / CPECC WDS JV

### PROJECT: DAANDINE EXPANSION PROJECT CENTRAL GAS PROCESSING FACILITY ELECTRICAL AND INSTRUMENTATION

### LOCATION: DALBY, SURAT BASIN QLD

### VALUE: \$10.5 MILLION INCL.

#### IN BRIEF

Pipemech's experienced E&I team complimented by their E&I QA/QC team executed an Arrow Energy's planned shutdown of the CGPF for the expansion and tie in of 3 x Ariel JGC/6 reciprocating compressors, 1 x TEG Generation package, TEG contactor tower, glycol filter, fuel gas and buffer vessel, inlet coalescer, oil filter, inlet separation boot and production facility flow lines. Following the shutdown, the team completed installation of the E&I Scope of Work for the new compressor packages including hazardous area auditing, UCP and MCC installations.

#### CUSTOMER BENEFITS

Pipemech's E&I leadership team including experienced Electrical Engineers, worked closely with the client to create work methodologies for the safe execution and tie in to existing electrical infrastructure given the operating plant conditions.

Pipemech's E&I QA/QC team conducted all MCC testing, hazardous area inspections, instrument inspections, cable tests, earth grid tests and following all testing, Pipemech's E&I Engineers produced all as build documentation to complete the handover dossiers.

#### E&I TECHNICAL FEATURES

- + Modifications to existing MCC-001
- + Installation of new MCC-002
- + Installation of power, control and fibre optic cabling to on-skid junction boxes for the 3 new compressors, TEG, Glycol, Fuel and Oil vendor supplied packages
- + Re-assembly of compressor packages including the installation of unit control panels and 2 x MCC's to each package
- + Installation of instrumentation, electric motors and associated pumps for the produced water transfer package
- + Modifications to Braemar 1 and 2 metering stations
- + Relocation and re-verification to the moisture analyser
- + Plant instrumentation and calibrations
- + Installation of new flame detectors and plant emergency sirens
- + New VSD's for TEG package
- + Installation of local control stations
- + Modifications to existing plant lighting and installation of new plant lighting
- + Plant earthing
- + Cable ladder
- + Underground cabling

#### E&I QA/QC FEATURES

- + Compilation of all test packs and inspection test records
- + Completions Management System population

#### E&I ENGINEERING FEATURES

- + Work Methodology/Work pack preparation
- Inspection Test Plan

