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GAS DEHYDRATION

CLIENT

Project: QCLNG Upstream Phase II
Location: Australia, Onshore
Delivery: 2015



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QUEENSLAND GAS COMPANY, QCLNG UPSTREAM PHASE II AUSTRALIA

Coal seam gas (CSG) gathered from well heads in the Surat Basin of Southern Queensland is compressed and dehydrated to provide ability of transferring within a dry trunk line. The refrigeration package cools the compressed gas to +10°C.

- 3 x 50% compressor train, 1620kW cooling duty at +10°C.
- single-stage screw compressor, Howden 255
- fully welded plate in shell heat exchanger gas-gas pre-cooling to optimise the refrigeration duty
- flooded fully welded plate in shell evaporator cooling CSG
- air-cooled fin-fan condenser
- Liquid refrigerant injection oil cooling

A complete dew point control unit is supplied including not only the refrigeration system, but also the associated process equipment including gas-gas heat exchanger, gas chiller and low temperature separator. Each complete train is installed on one multi-level skid to optimise the footprint, whilst maintaining accessibility within the skid.

The unit is installed outdoors in a remote location. However, sound power level requirement is less than 98 dB(A). This stringent sound level was achieved by using close fitted cladding on compressor and compressor discharge. Because of the effective design of acoustic cladding, installation of a ventilated enclosure and complications of maintenance and access was avoided.

After sales support is on-going through training, maintenance, spares and technical support well after commissioning.



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