

Weddell Power Station turbines rely on Gasco for natural gas conditioning

GASCO Pty Ltd has supplied to United Energy the natural gas conditioning system to meet the stringent GE specifications for the gas turbines.

The gas conditioning comprises:

- Two x Water Bath Heaters each at 100% duty capacity
- Dual Pressure Let Down Skid with Two x 100% capacity legs
- Two Filter Coalescer Skids each with Dual Filter/Coalescer vessels

The high pressure pipeline gas supply must have the pressure reduced before it can be used by the turbines. The large pressure reduction causes a significant cooling of the gas through the Joule-Thompson effect. The cooling effect must be compensated for by pre heating the high pressure gas before it gets to the pressure reduction skid. If not pre heated then ice and hydrates can be formed that can block or interfere with regulators and instruments.

The water bath heaters comprise a cylindrical steel shell which houses a high pressure tube bundle and a separate U shaped fire tube. Both of which are immersed in water which is used as the heat transfer medium.

Typically water baths run at 75 to 80% efficiency and bath temperature can vary between about 50 to 80°C.

The filter coalescers are designed to

remove particulates and liquid water and hydrocarbon droplets down to sub micron level. This is required to ensure ongoing reliable operation of the high speed turbines.

All equipment features extensive instrumentation and redundancy for high system reliability.

Gasco has supplied similar equipment to numerous well known companies including TXU, Mission Energy, Agility, Gasnet, Origin, Alinta and APA Group.

Gasco has built up a reputation as one of Australia's leading suppliers of combustion and process equipment to leading Australian and overseas companies. Products include Gas Conditioning, Thermal Oxidisers, Flares, Fired Heaters, Heat Recovery and Hot Oil Systems.

For further enquiries call Richard Jones (03) 9720 8577 or visit website: www.gasco.net.au



Above: One of two Water Bath Heater for Weddell



Two Dual Filter Coalescer Skids for Weddell



Above: Dual Pressure Let Down Skid



Gasco congratulates Power and Water on the Commissioning of the Weddell Power Station.

Gasco has supplied the Gas Conditioning System to United Energy.

Gasco is the leading supplier of Water Bath Heaters, Filter Coalescer Skids and Pressure Let Down Stations to Utilities and industry throughout Australia.

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