

Cryoquip-Australia supplies and installs a road tanker filling system for a new nitrogen liquefier



Cryoquip-Australia recently finished a major site installation at Coregas's nitrogen liquefaction facility in Port Kembla, NSW, Australia. The project involved the installation of over 300 m of vacuum insulated pipe work and three major pumping and vessel skids for the road tanker filling system.

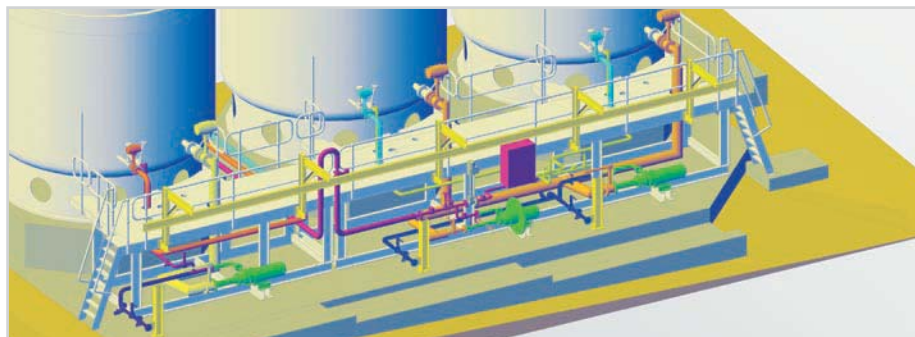
The customer required a supplier who could package the pumps and valves in an ergonomic pumping system, allowed operators to easily access valves and instruments on their vessels, and access and maintain pumps while ensuring efficient operation of the system.

Cryoquip was supplied the process and instrument diagrams (P&ID's) for the liquid oxygen, nitrogen and argon system, and from this, designed and specified the valves and pipe work, and produced a 3-D CAD model of the system. The system was approved by the customer and Cryoquip-Australia built

the packaged skids in their manufacturing facility in Melbourne, and installed the skids and pipe work on-site. The installation was completed on time and within the budget constraints of the project.

Other systems have been fabricated and ready for on-site installation for BOC in Australia, for their Ausmelt project in remote South Australia, and for Kuwait Industrial Gases.

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The Emergent Variable Phase Turbine

(continued from cover)

For waste heat recovery use of a Triangle Cycle with a VPT has been shown to result in a 20-40% improvement in power output compared to an organic Rankine cycle. Figure 4 is a photograph of a Triangle Cycle pilot plant for waste heat recovery. The pilot plant operates with high temperature refrigerants such as R245fa to demonstrate cycle efficiency

and to provide a test bed for turbine designs. Applications include waste heat recovery from industrial plants, engines and gas turbines and for geothermal power generation.

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1 Variable Phase Turbine

Figure 4: Triangle Cycle Pilot Plant

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