

Project Summary



Client:
Bechtel Oil, Gas and Chemicals

Location:
Queensland, Australia

APLNG Packaged Analyser Systems

Project Summary:	<p>Australia Pacific LNG is the leading producer of Coal Seam Gas (CSG) in Australia and holds the country's largest CSG reserves.</p> <p>Origin, ConocoPhillips and Sinopec are joint venture partners in Australia Pacific LNG.</p> <p>The Australia Pacific LNG project consists of:</p> <ul style="list-style-type: none">○ The further development of Australia Pacific LNG's gas fields in the Surat and Bowen basins in South Western and Central Queensland○ A gas pipeline from the gas fields to an LNG facility in Gladstone, Queensland○ An LNG facility on Curtis Island in Gladstone, the first two trains of which will have a processing capacity of up to 9 million tonnes per annum <p>Synertec is Bechtel's supplier for the Analyser Systems. The project requires fully-automated on-line analyser systems, as they provide critical in-process control, quality control and quality billing. Synertec scope includes design, engineering, project management, construction and testing of the following items:</p> <ul style="list-style-type: none">○ Six fully air conditioned analyser shelters with Fire & Gas systems designed for installation in Zone 2 Hazardous Area. The analyser shelters contain total of 28 Gas Chromatographs, 2 Wobbe Index Analyser, five flow computers and one LNG sampler○ Four Quartz Crystal Microbalance (QCM) analysers to measure low PPM
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	<p>levels of moisture. Each analyser is housed in a three sided shelter including electrical equipment to suit zone 2 hazardous area</p> <ul style="list-style-type: none">○ 13 Tunable Diodo Lasers (TDL); Eleven of the analysers will measure PPM levels of moisture and two will measure PPM levels of CO2. Each analyser is housed in a three sided shelter including electrical equipment to suit zone 2 hazardous area○ Two Infrared analysers are to measure O2 in situ. Each analyser is housed in a three sided shelter including electrical equipment to suit the zone 2 hazardous area○ Four Water quality analysers measure pH, Chlorine, conductivity, turbidity and oil in water. Each analyser is supplied on a filed rack with sunshade and tundish. Electrical equipment will be mounted on the rack and situated in the general area○ Samples probes including fix, manual and automatic insertion and LNG probes <p>The project met all Australian standards for installation in hazardous Area Zone 2 and cyclone area.</p>
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