

Project Summary



Client:

Bechtel/Chevron Australia

Location:

Onslow, Western Australia

LNG Custody Transfer System for Wheatstone Project

<p>Project Summary:</p>	<p>Bechtel, in partnership with Chevron Australia, required a Sampling System to sample and measure the composition of the LNG during ship loading for the purposes of Custody Transfer.</p> <p>Synertec was the EPC contractor for this project and successfully managed the structural, process & mechanical, and electrical & instrumentation fabrication and installations for the project. In order to meet the international agreement for sampling and measuring LNG, Synertec engineered and designed a complex solution which extracted samples of LNG from the pipeline during ship loading and then analysed the composition of the LNG with extreme precision (99.5% accuracy). To ensure the reliability of the system, Synertec’s design included redundancy at all levels; thus, guaranteeing that measurements were continuous, even in the event of a failure/interruption in a particular area.</p> <p>In order to fabricate the equipment, Synertec engaged suppliers both locally in Australia and also Internationally to ensure the Project Specifications and requirements were achieved. Employing a number of sub-contractors, the fabrication work was planned and coordinated to ensure that the project was delivered on time to the client, whilst maintaining the highest quality workmanship and safety culture. As an EPC, Synertec has an outstanding safety record with zero loss time injuries.</p>
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SYNERTEC

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	<p>The scope of work delivered by Synertec included:</p> <ul style="list-style-type: none"> • LNG Composite Sampling Vaporisers: <ul style="list-style-type: none"> ○ Redundant Insertion Probes ○ Mercury Sampling ○ Stream Switching ○ Accumulators • LNG Composite Sampling System: <ul style="list-style-type: none"> ○ Sample Shelter ○ Static Mixer ○ Gas Holder ○ Sample Cylinders ○ Manual Spot Sampling points for compositional analysis and impurities ○ Lighting ○ Sampler Controller ○ SilcoNert 2000 coated and electro-polished tubing • LNG Composite Analyser House: <ul style="list-style-type: none"> ○ Gas Chromatographs ○ Sample Conditioning Systems ○ Remote I/O's ○ Calibration Gas Cabinet <p>General: Detailed Design and Engineering System programming and configuration Project Management, coordination, planning, reporting, quality and safety Operation and Maintenance Training</p> <p>Site service support: Supervision of offloading and installation Supervision of connection to services and purging</p>
Technologies:	<p>Yokogawa GC8000 Gas Chromatographs Krohne Load-out Computer System Allen-Bradley ControlLogix PLC's and HMI Opta-Periph Vaporisers and Gas older</p>