ConocoPhillips Australia Pacific LNG
Explosion Proof Bridge Cranes and Jib Cranes
Welcome to the second issue of the JBC newsletter.

In this issue we focus on liquefied natural gas projects. LNG has become a big part of our business over the last ten years. Not only have we supplied explosion proof cranes but also jib cranes and monorail hoist systems. A recent experience LNG list is contained in this issue.

At the time of writing we have explosion proof cranes at various stages of design and manufacture destined for projects in Kazakhstan, USA, Australia, Algeria, Russia and both the UK and Norwegian sectors of the North Sea.

We hope you enjoy reading this issue and your continued interest in J Barnsley Cranes Ltd.

Director - J.Satchwell
In Focus

Explosion Proof Cranes

J Barnsley Cranes have been manufacturing cranes for the oil and gas, power generation, water treatment, pharmaceutical and chemical industries for over 25 years. The company has particular expertise in manufacturing explosion-proof cranes and hoists for hostile, hazardous areas.

Cranes designed specifically for Zone 1 or Zone 2 hazardous areas worldwide including motors and electrical systems in ignition protection mode, “flameproof “enclosures: Ex de IIB/IIC T4 & Ex ndeA IIB/C T3

Our cranes are destined for both onshore and offshore installations for various applications including BOP Handling, Well Bay Intervention and Compressor Houses.

With spans up to 35m and capacities up to 100Te we work with engineering houses around the world on specially designed cranes for off-standard applications.

Please contact our sales team at sales@jbarnsleycranes.com for further information.

Cranes designed to:
- BS EN 13001-2:2014
- DD CEN/TS 13001-3-2
- DIN 1508 H2 B3. & FEM
- Supply of Machinery (Safety) Regulations, 1992 (S.I. 1992/3073)

Country Approvals:
- ATEX (Europe)
- IECEx (International)
- GOST (Russia)
- ENACT/DPP (Algeria)
- CSA (Canada)
- CMAA 70 (USA)
- AS/NZS 60079 (Australia/New Zealand)
Conoco Phillips Australia Pacific LNG

The project involves the development of Australia Pacific LNG’s coal seam gas resources in the Surat and Bowen basins in central south west Queensland, a 520 kilometre transmission pipeline, and a multi-train LNG facility on Curtis Island, near Gladstone, Queensland. ConocoPhillips is responsible for the construction and operation of the Curtis Island facility in Gladstone.

Australia Pacific LNG is a joint venture project between ConocoPhillips, Origin Energy, and Sinopec.

ConocoPhillips has 40 years experience in operating and developing LNG facilities, and combined with Sinopec’s experience in natural gas production, transportation and trade make a powerful combination for the continued success of the project.

J Barnsley Cranes engineers have installed and commissioned 4 * 55/9T EX Compressor house bridge cranes on the first two LNG trains at the project location in Gladstone, Australia. AP LNG, together with QC LNG and Wheatstone LNG are three projects awarded to J Barnsley Cranes from an engineering house in Houston.
Crane Specification

Main Hoist: 55Te
Aux Hoist: 9Te
Span: 18.8m
Height of Lift: 17.69m

- Crane design in accordance with - AS1418.1, AS1418.3, BS466, BS2573.1, BS2573.2, CMAA 70, AS/NZS 60079, IECEX
- Area Classification: Zone 2 Gas Group IIA, Temperature T3
- Supply Voltage: 400v 3ph 50Hz
- Radio control
LNG - Expanding Our Business

Liquefied Natural Gas (LNG) Projects have been on the increase over the last 10 years resulting in an area of our business where we have seen a significant increase in demand for Explosion-Proof Cranes and Hoists.

LNG is highly sensitive and easily inflammable and for this reason strict safety regulations are in place within the LNG trains. LNG trains are the large industrial plants for liquefaction and regasification of natural gas.

Electric Explosion-Proof Bridge Cranes, Jib Cranes and Monorail hoists have been supplied and installed on a number of projects including Hammerfest LNG in Norway, South Hook LNG in the UK, Skikda LNG in Algeria, and the Gorgon, Ichthys, Queensland Curtis, Australia Pacific and Wheatstone LNG projects in Australia over the last 10 years.

We have worked with the likes of Bechtel, KBR, CB&I, Aker Solutions and JGC developing a level of understanding and trust in regard to initial design concepts in Pre-FEED/FEED all the way through to the final installation and commissioning phase.

In addition to these projects we have also recently supplied a number of Explosion-Proof Cranes on the Shell Prelude FLNG - a project we highlighted in our first newsletter in January. The Prelude is the world’s first floating liquefied gas platform in addition to being the largest offshore facility ever constructed.

As a market leader and global supplier of explosion-proof cranes we pride ourselves in the professional support we offer for all documentation requirements including certification in line with ATEX, IECEx, CSA and GOST.

This second edition of JBC newsletter focuses on our LNG experience with both case studies. We are also extremely active in both Upstream and downstream sectors. Please look out for our third edition available in July, which will focus on our downstream activity.
The Gorgon Project is developing the Gorgon and Jansz-Io gas fields, located within the Greater Gorgon area, between 130 and 220 kilometres off the northwest coast of Western Australia. It includes the construction of a 15.6 million tonne per annum (MTPA) liquefied natural gas (LNG) plant on Barrow Island and a domestic gas plant with the capacity to supply 300 terajoules of gas per day to Western Australia.

The Gorgon Project is operated by Chevron. It is a joint venture of the Australian subsidiaries of Chevron, ExxonMobil and Shell.

**Project Includes:**
- 6 x 100t DG EOT Cranes
- 3 x 6t DG EOT Cranes
J Barnsley Cranes installed on a module bound for Barrow Island Australia.
Experience List - LNG Projects
A selection of international LNG projects from J.Barnsley Cranes

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- LNG Projects
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