

Pluto Liquefied Natural Gas (LNG) Facility

Precision Grouts



The Pluto facility in Western Australia. Image source: Woodside image gallery

Project:

Pluto LNG Project

Location:

Western Australia

Applicator / Contractor:

Foster Wheeler Worley Parsons

Products used:

MasterFlow 4500, MasterFlow 815,
MasterFlow 648 & MasterFlow 618

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The Background:

Woodside is Australia's most experienced LNG operator and largest independent oil and gas company. In a joint venture with Tokyo Gas and Kansai Electric, they began developing plans for a world-class LNG facility, Pluto, in 2005.

The project captures gas from fields located 190 kilometres (km) off the coast of Karratha, in Western Australia. The gas is then sent to shore through a pipeline for processing. One of the project's major contractors, Foster Wheeler WorleyParsons (FWW), turned to Master Builders Solutions for a suite of high precision grouts during the construction phase of the Pluto processing plant.

The Challenge:

In order to build the state-of-the-art LNG facility, FWW needed to engage a supplier that could deliver the full range of precision grout products. They also needed a supplier that understood the environmental and regulatory challenges.

FWW needed a trusted global company with the highest level of quality assurance. Also critical to the Project was surety of supply. Given the remote location, lead time from placement of order to arrival on site, was a period of several weeks. This required careful management of scheduling between Master Builders Solutions and the other sub-contractors involved.



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Pluto LNG onshore gas plant. Source: Woodside image gallery

Our Solution:

In 2007, Master Builders Solutions began working with the team of FWW global engineers before the construction process took place. These engineers then became the FWW team leaders in Australia when the Project eventually began in 2008.

This early interaction established the trust and confidence required between Master Builders Solutions and FWW, both locally and globally.

Master Builders Solutions had the quality assurance systems the client was looking for. We further tailored the systems to align with the local environmental, and regulatory quality requirements. Individual quality assurance certificates were issued with every batch supplied to the project. Master Builders Solutions also implemented certified on-site applicator training for both the placing and testing of our products.

Master Builders Solutions aligned production schedules with sub-contractors well in advance of product requirements. This allowed fresh product to be on site on time, and in line with the arrival of overseas modules.



Loading jetty at Pluto LNG onshore gas plant. Source: Woodside image gallery

The Customer's Benefit:

- Exclusive partner from design to production, over the five year period.
- Master Builders Solutions delivered the right solutions on time as required.
- Strategic expertise and advice to address challenges as they arose during construction.

Project Facts at a Glance

- Construction period was between 2008 - 2012
- A range of Master Builders Solutions cementitious precision and epoxy grouts specified including MasterFlow 4500, MasterFlow 815, MasterFlow 648 and MasterFlow 618.

Master Builders Solutions

Master Builders Solutions is a leading global manufacturer of concrete admixtures, as well as other sustainable solutions for the construction industry, focused on delivering its vision: Inspiring people to build better. Master Builders Solutions provides value-added technology and market-leading R&D capabilities to improve the performance of construction materials and to enable the reduction of CO2 emissions in the production of concrete. Founded in 1909, Master Builders Solutions has more than 1,600 employees and 35 production sites globally with over 150 employees and 6 production sites operating across Australia and New Zealand. Master Builders Solutions supports its customers in mastering their building challenges of today – for a decarbonised future.