

Scope / Product:

## **Roro Berthing Dolphin Frames**

Project Name:

## **APLNG Material Offloading Facility**

Location:

## **Gladstone, QLD**

Date:

**2012**

Client:

## **Waterway Constructions**



## **Background:**

The Australia Pacific LNG (APLNG) Project is a coal seam gas (CSG) to liquefied natural gas (LNG) joint venture partnership between Origin, ConocoPhillips and Sinopec. The project includes the extraction of coal seam gas in the Bowen and Surat Basins, a 522km gas transmission pipeline, and an LNG Facility on Curtis Island near Gladstone. Along with the APLNG Material Off-load Facility (MOF), Bechtel required additional berthing space to assist with the construction of the LNG Plant.

## **Key Requirements and Scope:**

To manage the offshore procurement, fabrication, inspection, delivery to Gladstone Port and the preparation of comprehensive QA/QC handover documentation. The scope comprised approximately 275MT of fabricated steel including dolphin structures, access platforms, walkways, ladders and handrails.

## **Solutions and Benefits:**

- Fabrication and supply of six separate structures and connecting walkways, each manufactured to fit precisely to the already driven dolphin tubular piles which were also supplied by J Steel.

This resulted in a significant reduction of site work, and resulted in cost savings and the minimisation of environmental and OH&S issues.

- By working to agreed timelines and in collaboration with the client and Port Authority, J Steel was able to deliver the fully fabricated modules and walkways from the vessel direct to the client's construction barge. From there, the modules were taken to site and immediately installed.
- The client was able to realise significant economic benefits through offshore fabrication whilst ensuring high quality product and on time delivery.
- A comprehensive quality and project management strategy was developed and implemented, incorporating full time off shore fabrication management, supervision, inspection, testing, expediting and reporting.
- Minimisation of risk through J Steel's robust and proven fabrication, financial and logistics management.