



Tideland buoys and lights for new Australian LNG Terminal

Tideland Signal, the UK-based aids to navigation specialist, has supplied buoys and solar-powered lanterns to guide tankers into the berths serving the new LNG terminal on the Burrup Peninsula near Karratha in Western Australia.

Dredging for the new Phase V LNG terminal at Karratha has involved the removal of over 3 million cubic metres of sand, silt, rock and sediment from the seabed of Mermaid Sound. This will provide a deep water approach channel and turning basin for tankers of up to 145,000 cubic metre capacity as they approach the new LNG loading jetty and a second loading berth, both of which are being constructed by the Harbourworks Clough Joint Venture.

The approaches to Karratha will be marked by three existing spar buoys showing green lights and three new Tideland SB-285P fairway buoys, equipped with Tideland MaxLED-200 lanterns, showing yellow lights. The SB-285P has a frame of marine-grade stainless steel, while both the float and tower assemblies are rotationally moulded in UV stabilised, self-coloured polyethylene filled with expanded polystyrene. The float section is divided into quadrants, so that individual units can be removed and replaced in the event of a collision. Ballast is internally located and mooring/lifting eyes are moulded into the buoy body to ensure a smooth, easily maintained external profile. There are no external corrodible parts, the buoys are corrosion-resistant, never need painting and are unsinkable.

MaxLED-200 is an extremely compact LED lantern with a range in excess of 10 nautical miles (18.42km) despite being less than 30 cm high and weighing only 4.76kg. It is constructed in rugged, corrosion-resistant marine aluminium designed to withstand the most severe environments, from ice-bound latitudes to the tropics. The exceptional range is achieved by a powerful, one-piece lens with proprietary Tideland optics, which projects light in an even and consistent 360° horizontal beam pattern. Proven high-intensity LED technology, together with power conditioning circuitry

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provides extremely high reliability and long service life, making the MaxLED-200 ideally suited for buoy mounting, beacons, offshore and other solar-powered applications. Features include full monitor and control access, user-selectable flash characters and power setting for multiple visible range performance.

The new A\$2 billion Phase V LNG terminal at Karratha is part of the Woodside-operated North West Shelf Venture, Australia's largest resource project. In addition to the new berthing facilities, it includes a fifth processing train onshore, which will be fed via the existing sub-sea pipelines from Goodwyn, North Rankin and Cossack Pioneer. When complete, towards the end of 2008, the fifth train will be similar in size and production capacity to the fourth train at Karratha, which can produce 4.4 million tonnes of LNG a year, boosting Woodside's total LNG production capacity on site to 16.3 million tonnes a year.

Approved to ISO 9001:2000, Tideland Signal Limited is a British-based member of the Tideland group of companies, which specializes in the design and manufacture of aids to marine navigation. The Tideland group is independently owned and has its headquarters in Houston, Texas.

For additional information regarding Tideland Signal Corporation, Aids to Navigation, and VTS and AIS solutions please contact Clive Quickenden at +713-681-6101.

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