



Tideland buoys and lights for Yemen's LNG terminal

Tideland Signal has supplied 18 Tideland SB-138P polyethylene buoys to Lamnalco Limited to mark an exclusion zone at the Yemen's new LNG terminal at Balhaf, on the Gulf of Aden, which began exporting in November 2009.

The Tideland buoys were supplied complete with SolaMAX 140/6 self-contained lanterns and composite mooring systems. The compact lightweight design features six integral solar panels charging a sealed lead acid battery via a solar regulator. All the internals, including the long-life LEDs and high-integrity electronics, are contained within a tough UV-resistant polycarbonate enclosure and will even withstand being temporarily submerged in salt water. The only time the lantern needs to be opened would be to change the battery, recommended after 5 years operation.

The lanterns are fitted with MaxiHALO 60 LED flasher controllers with 256 user-selectable flash codes. A high-efficiency DC to DC converter is incorporated, providing virtually constant luminous output under a wide range of input power conditions. Tideland Signal also offers a range of options with its LED lanterns, including GPS synchronisation, GSM modem reporting and VHF remote programming.

The Tideland SB-138P is one of a comprehensive range of rotationally moulded polyethylene buoys with a solid core of expanded polystyrene foam. Tideland's innovative mould and fill manufacturing process prevents significant ingress of water in the event of a puncture. Before moulding, the polymer is compounded with UV inhibitors and pigment so that the wall thickness is evenly UV stabilised and colour is uniform throughout. As a result, painting is never necessary. In addition, the buoy is unsinkable, corrosion-resistant and resists marine growth.

At around US\$ 4.5 billion, the Yemen LNG project is the country's largest-ever industrial investment. The gas comes from the Marib-Jawf field in the country's interior, north east of San'a. The infrastructure includes three pipelines from Marib and a two-train

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liquefaction plant at Balhaf, south of Al Mukalla. The project's proven reserves include 9.15 trillion cubic feet (TCF) with a further million allocated for use in the domestic market. The project is considered a key element in the future economic growth and industrial development of Yemen.

Approved to ISO 9001:2008, 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.

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**Issued on behalf of Tideland Signal Limited, Kendal House, Victoria Way, Burgess Hill,
Sussex, RH15 9NF, UK.**

Tel: +44 (0) 1444 872240. Fax +44 (0)1444 872241. E-mail: sales@tidelandsignal.ltd.uk