



Tideland LED lights for Milford Haven's South Hook Terminal

Tideland Signal Limited, the UK-based aids to navigation specialist, has supplied a variety of LED lanterns to help ensure the safety of the new ships serving the South Hook LNG (liquefied natural gas) Terminal under construction near Milford Haven, Wales.

The first element of the contract consists of five Tideland SolaLED-140 self-contained lanterns, two red and two green, for mounting on four lateral buoys in the terminal's swinging area and one white light for the safe water mark. SolaLED-140 is a long-life, long-range LED lantern with a range of 4.5NM and a wide beam lens configuration, making it especially effective in compensating for buoy roll. It incorporates an integral solar panel and a sealed lead acid battery.

SolaLED-140 offers operators a minimal maintenance regime coupled with a service life of seven years on station in the most demanding environments. Long-life LEDs and high-integrity electronics housed in a tough UV-resistant polycarbonate enclosure ensure that lantern will not need to be opened during its service life and will even withstand being submerged in salt water.

The second element of the contract consists of nine Tideland MLED-RETRO –1 DC light modules for an ongoing programme in which Milford Haven Port Authority is retrofitting its incandescent lanterns with LEDs. The MLED-RETRO –1 DC flasher is a high-intensity, single LED light source that allows operators to upgrade to LED technology simply and economically. There are three models: two omni-directional units, with either a single or dual LED light source, suitable for Tideland's ML-140 and ML-155 as well as most other standard marine lanterns and a single-direction unit for range lanterns



such as the Tideland RL-200. They are suitable for use with both clear and coloured lenses and will improve efficiency by 2 – 10 times, depending on colour.

Ted Sangster, Chief Executive of Milford Haven Port Authority, commented: “For the past four years, we have worked closely with our two LNG terminal developments, South Hook LNG and Dragon LNG. It has been a major task planning for the way in which LNG tankers will be managed safely and efficiently alongside all the other shipping and port users, when they start arriving from the end of 2007. The Tideland aids to navigation play a major part in ensuring that safety and efficiency.”

South Hook is a multi million Dollar development designed to provide some 20% of the UK's natural gas requirement and a replacement for North Sea gas, as that begins to run out. The site includes one of the longest jetties in Europe, constructed in the 1960s to serve Esso's adjacent Herbrandston Refinery, which was subsequently dismantled. The development is part of the \$13 billion Qatar Gas II project, a joint venture between affiliates of Qatar Petroleum, Exxon Mobil and Total, which also includes the construction of two of the world's largest liquefaction trains and a dedicated fleet of LNG carriers at least 70% larger than any currently in existence.

Construction began in 2004 and the new facility will be amongst the world's largest LNG terminals, with two deep-water receiving berths capable of handling 15.6 mtpa of LNG. Six new Q-Max ships with a capacity of up to 265,000m³, carried in five storage tanks are being built in the Far East along with eight smaller Q-Flex vessels. With a ship arriving every two and a half days, the onshore facilities are equipped to offload, store and regasify the LNG

NEWS

June 2007

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and send it out to consumers via the national transmission system via a new 128km pipeline between Milford Haven and Aberdulais. First deliveries are scheduled for early 2008.

Approved to ISO 9001:2000, Tideland Signal Limited is a British-based member of the Tideland group of companies, which specialises in aids to navigation and solar generation. 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 Jeff Rosner at +713-681-6101.
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