



Tideland warning systems for Thai mooring buoy

Tideland Signal, the international aids to navigation specialist, has supplied a package of safety measures for a CALM (catenary anchor leg mooring) buoy designed and built by Bluewater Energy as part of a tanker offloading facility in the Gulf of Thailand supplying the Thai Oil refinery in Sriracha.

The buoy is a large structure, complete with its own control room, which forms part of a single point mooring system for VLCC size tankers. It will be fitted with a Tideland ML-155 lantern, an AB-560 fog signal, solar panels, batteries, a Xenon alarm beacon and a PC-based control system for the load pin monitoring system, which allows the operators to monitor the load on the mooring hawsers. The whole package is certified for use in Class 1 Division 2 hazardous areas. Tideland can also offer packages certified under ATEX for Zone 1 and Zone 2 hazardous areas.

Tideland's ML-155 lantern features a one-piece acrylic fresnel lens designed to deliver maximum beamed light for the lowest possible power consumption. In this case, it is equipped with Tideland's TF-3B MicroPower Omnibus II flasher/lampchanger equipment, which incorporates a timer circuit card to permit input voltages up to 36V and provides up to 256 user-selectable flash codes.

The CALM buoy is part of a complete SPM Buoy system designed and built by Bluewater Energy Services B.V. under contract to Saipem Malaysia Sdn. Bhd. The system will be installed in a water depth of 30 metres approximately 200 km southeast of Bangkok. Sriracha is one of the largest

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Tideland Signal
Corporation



and most complex refineries in the Asia Pacific region, with a capacity of 220,000 barrels per day.

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.

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