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## Tideland warning systems for Clair Ridge platforms

**1 November 2013**

The two platforms of the Clair Ridge development west of Shetland will be marked by temporary warning systems from Tideland Signal (Tideland) for approximately two years, while work continues on the topsides and subsea pipelines.

Tideland is supplying two sets of Syncrolan light stations with main and secondary lights, a SeaBeacon 2 System 6 racon for the QU jacket, main and secondary fog station for the DP jacket, battery banks and a self-contained SolaNOVA-65 lantern, also for the DP jacket. There is no mains electricity supply, so the battery banks are sized to power the warning systems for a minimum of 730 days, working seven days a week, 24 hours a day.

The Syncrolan light stations consist of an ML-300 LED main light equipped with a MaxiHALO EFF light source flashing Morse U over 360° and over a range of 10 NM. Mounted on the same pedestal, the secondary lantern, also an ML-300 with a MaxiHALO EFF, is only activated in the event of the first light failing, so providing 100% redundancy. Both light stations are equipped with GPS so that they can be synchronised remotely.



Tideland Signal ML-300 LED main light is equipped with a MaxiHALO EFF light source flashing Morse U over 360° and over a range of 10 NM.

The SeaBeacon 2 System 6 racon on the larger jacket offers a high sensitivity of -50dBm in both X- and S-Band, which means that it will respond better to weaker interrogation from lower-power radars on smaller vessels – or to radars at greater distances/ranges.

Tideland's AB-560s installed on the DP jacket provide main and secondary fog signals, automatically changing from duty to standby as required. They incorporate five drivers/emitters producing 133.2 dB at 1 metre equivalent and with a range of



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2NM, broadcasting Morse U over 360° in the horizontal plane. The drivers/emitters are housed in robust GRP casings and are mounted in a galvanized steel structure designed to withstand severe storms.

The two bridge-linked platforms of Clair Ridge are located in 459 feet (140 meters) of water. The jackets were installed in June and July 2013 and the topsides are due for installation in 2015, with production scheduled to start the following year. BP, as field operator, has overall project management responsibility for the facilities and the development includes pipeline systems that will allow production to be transported from Clair Ridge to Sullom Voe Terminal via a dedicated pipeline spur tied into the Clair Phase 1 system. BP leads a consortium with Shell, ConocoPhillips and Chevron and operates the field, holding a 28.6 percent interest. Reserves are estimated at 640 million barrels of recoverable oil, with peak production of 120,000 barrels per day.

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*Founded in 1954, Tideland Signal Corporation delivers innovative aids to marine navigation products and services, while supporting its customers with comprehensive technical assistance and after sales care. This mission is accomplished with the support of its subsidiaries Tideland Power Systems and Safe Sea Services along with its partner Floatex S.R.L.*

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