

CTG SEA SENTRY WASHWATER MONITOR INSTALLED ON SCRUBBER RETROFIT IN CHINA

Chelsea Technologies Group (CTG), a world leader in the design and manufacture of sensors for the maritime sector, has announced that its Sea Sentry wash water monitoring system for ship exhaust gas cleaning systems has been installed in a Shandong Pure Ocean Technology scrubber, which has been retrofitted to Liberian-flagged bulk carrier BAO Glory, at the Weihai Xinhong shipyard in Weihai, China. The installation represents one of the first scrubber retrofits to be carried out in a Chinese yard, a reflection of the industry-wide acceleration in the global scrubber market.

The installation of scrubbers is increasingly seen as an attractive compliance option that affords owners and operators the opportunity to continue to burn Heavy Fuel Oil (HFO) at a lower cost. A recent report from Lloyd's Register stated that an expected 1000 to 1500 vessels will be fitted with scrubbers by 2020, with order slots for installation ahead of the implementation of the global sulphur cap nearing capacity. With limited time remaining and with installation capacity becoming scarce, yards in China will see increased uptake in scrubber installations as the government seeks to bring capacity in line with demand.

Whilst the economic case for installing scrubbers is clear for many vessel types and payback period is relatively short, scrubbers are a costly capital expenditure - ranging from \$2m to \$6m per unit - and so it is crucial that compliance with environmental regulations can be proven. All varieties of wet scrubber systems use wash water which must be monitored at all times to avoid discharges that may exceed regulations and damage the environment. With an ever increasing number of scrubber units installed across the global shipping fleet, it is essential to ensure there is an accurate and robust monitoring capability in place to ensure compliance with wash water regulations.

CTG's Sea Sentry provides a fully autonomous wash water monitoring system, which monitors both the water inlet and outlet of wet exhaust gas scrubber systems. The system has the ability to accurately measure the polycyclic aromatic hydrocarbon, absorbance, turbidity (to ISO 7027: 1999), temperature and pH of scrubber wash water, and can monitor open-loop, closed-loop and hybrid scrubber systems, setting the gold standard for accurate wash water monitoring.

Dr Brian Phillips, Managing Director, CTG, commented:

"Scrubbers are an attractive option for many vessels assessing compliance solutions ahead of 2020, given the expected disparity in fuel costs between HFO and compliant fuels. For those taking the decision to invest in scrubbers, it is critical that they plan ahead and that all aspects of scrubber operations are considered ahead of installation.

"For vessel operators, it is essential to work with knowledgeable experts to receive the training required to operate new systems, along with the understanding they need to be able to interpret and apply the data, and prove compliance. CTG is working with leading scrubber manufacturers to ensure that shipowners who are taking the decision to invest in scrubber technologies have easy access to all the data they need to accurately prove compliance with wash water regulations, allowing companies to stay ahead of regulations and continue to trade across the globe."

Accurate monitoring for compliance with environmental regulations is a vital prerogative for the international



Brian Phillips shown with the boxed Sea Sentry wash water monitoring system just before it was installed in the Shandong Pure Ocean Technology scrubber, which has been retrofitted to Liberian-flagged bulk carrier BAO Glory (shown in the background).

shipping industry in preparation for the 2020 global sulphur cap. Owners and operators are under increasing scrutiny to not only install costly compliance technologies but also to provide accurate data to demonstrate compliance, whilst also maintaining operational efficiency, profitability and protecting their reputation within the market.

CTG is a leading global provider of highly advanced sensors and systems, and has over 50 years' experience of developing technologies that perform a crucial role in providing accurate and reliable testing for compliance with environmental regulations. CTG's Sea Sentry has been certified by DNV GL and ClassNK, providing assurance to shipowners and operators that the system meets the utmost standards in quality, accuracy, and operational efficiency. CTG has taken all available measures to verify that Sea Sentry provides accurate and robust data to demonstrate compliance with IMO Annex VI wash water discharge regulations, underpinning the company's commitment to achieving type approval for all of its systems.



CTG's Dr Brian Phillips and Dr John Attridge with executives from Pure Ocean Technology and Shanghai Purli Industrial Co. Ltd

Contact Details

Stephanie Lavelle, Maritime Manager

- Mobile: +44(0)7766 604 894
- Tel: +44(0)20 8481 9000

Chelsea Technologies Group (CTG)

Emma Johnson, Maritime & Hydrocarbon Manager

- Mobile: +44(0)7900 733 675
- Tel: +44(0)20 8481 9042