News Release

ExxonMobil

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ExxonMobil Expands Independently Accredited Mass Flow Metering System Offer in Hong Kong

- **Second barge fitted with the mass flow metering system (MFMS) comes into service 12th August 2016**
- **The Lloyd's Register accredited system offers enhanced fuel measurement and significant time and cost savings**
- **ExxonMobil is the first fuel supplier to adopt an independently accredited MFMS in Hong Kong**

HONG KONG – ExxonMobil has introduced its second independently accredited mass flow metering system (MFMS) in Hong Kong onboard the bunker vessel, Anelly. It follows the introduction of the first independently accredited MFMS in Hong Kong fitted on the barge, Anshing. The expansion will help to meet increased customer demand for fuel deliveries via an accredited MFMS, due to the cost and efficiency benefits.

Both metering systems are fully accredited by Lloyd's Register, in partnership with A*STAR's National Metrology Centre, the national measurement institute of Singapore, and Metcore International, a consultancy with expertise in MFMS for bunkering. In line with industry best practice, the technology directly measures fuel mass, instead of volume, to provide an accurate measurement for vessel operators. The system's seals are validated by independent third parties that enhance traceability and help to ensure system integrity.

The MFMS provides multiple benefits for vessel operators, suppliers and regulatory bodies. These include enhanced accuracy as a result of measuring fuel mass, increased efficiency and reduced uncertainties related to variables including density and temperature. It can save an estimated US$5,000[1] and up to three hours[2] per delivery alongside improving transparency as measurement data is logged throughout the process.

"Our first mass flow metering system in Hong Kong received a very positive response from customers and has proved to be a great success. This second barge will help to ensure the majority of ExxonMobil fuel deliveries will be supplied via mass flow metering and also cater for larger stem sizes," said Deepankar Banerjee, ExxonMobil's Asia Pacific marine fuels sales manager.

"ExxonMobil and Lloyd's Register continue to work together to increase access to fully accredited mass flow metering system fuel delivery services in Hong Kong," said Douglas Raitt, Lloyd's Register

[1] Per 1,000MT stem size delivery at $300/MT. Includes surveyor costs, temperature delivery range and density delivery range but does not include dip tank measurement errors. A temperature measurement delta of 10°C amounts for up to US$2,100. A 3kg/m³ density difference amounts for up to US$1,000. These variables can be avoided by the use of a secure mass flow metering system therefore negating the need of a quantity surveyor with an estimated cost of up to US$2,000.
[2] Comparison versus manual tank dipping.

Marine's regional consultancy manager. "Both ExxonMobil systems are independently validated and sealed, which underlines the security of the system versus other non-accredited meters in the market."

The expansion of independently accredited mass flow metering bunker fuel delivery services into Hong Kong follows its pioneer introduction in Singapore in June 2012. ExxonMobil was the first supplier to deliver marine fuel using a MFMS approved by a port authority.

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About ExxonMobil

ExxonMobil, the largest publicly traded international oil and gas company, uses technology and innovation to help meet the world's growing energy needs. ExxonMobil holds an industry-leading inventory of resources, is among the largest refiners and marketers of petroleum products and its chemical company is one of the largest in the world. For more information, visit www.exxonmobil.com or follow us on Twitter www.twitter.com/exxonmobil.

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