



New system being rolled out to BOURBON sister ships in the coming months following successful trials

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New Kongsberg Maritime application enables Bureau Veritas to successfully complete the first ever ‘DP Digital Survey’

- *Kongsberg Maritime, Bureau Veritas and BOURBON work together to verify the functionality, availability and reliability of a newly-developed application that enables remote surveying of Dynamic Positioning systems on board*

Kongsberg, Norway, 21st March 2019 – Kongsberg Maritime, Bureau Veritas (BV) and offshore service provider BOURBON have announced the successful testing of a new solution for DP (Dynamic Positioning) system performance and redundancy audits – a first in the maritime industry.

Developed by Kongsberg Maritime in collaboration with BOURBON and Bureau Veritas' DP experts, the 'DP Digital Survey' application runs on an industrial data management system that ensures unprecedented data consistency for the verification of installed systems. It acquires information directly from the DP system and delivers it to auditors via a secure cloud infrastructure, allowing compulsory surveys to be conducted remotely.

Kongsberg Maritime's new DP Digital Survey application offers a distinct advantage for vessel owners utilising the remote survey tool to collect a comprehensive quantity of test execution and completion evidence. The DP Digital Survey application is well beyond the capabilities of the photo and video recordings which have been introduced to the maritime industry in recent years.

Kongsberg Maritime's plans for the ongoing evolution of the DP Digital Survey app include the following:

- Gradually automating the survey by capturing and digitalising the best practices of DP auditors
- Redesigning the survey process and tests to best fit the new tools, based on the industrial data
- Establishing a continuous 'DP Digital Survey' framework, where the performance and the technical availability of the DP system are remotely monitored in detail.

"This collaboration allows us to strengthen our core products by offering our customers tools that will reduce their OPEX and streamline their operations," says Eivind Alling, Vice-President of Digital Performance at Kongsberg Maritime. "KONGSBERG strives for innovation, and we are creating new applications that will give our end customers more control of their data to support their operations."

"The key for us is to receive reliable performance and failure data – not just photos and pictures," adds Laurent Leblanc, Vice-President and Marine Operations Director, Bureau Veritas. "We have to first check the data is of

sufficient quality: data quality management is a key factor, along with cyber-security for data transfer. Our expertise is then used to review and assess the data. This provides access to a higher level and depth of 'onshore' engineering expertise to make judgements on results."

Frederic Moulin, BOURBON Operations Director, is also in no doubt about the value and potential of Kongsberg Maritime's DP Digital Survey app. *"This project greatly contributes to the aim of our smart shipping program, which is to capitalise on the digital revolution so as to stand out through a connected fleet while simultaneously reducing our operational costs. With our partners, we are ready to extend this 'DP Digital Survey' to sister ships in the coming months, and plan for further deployment later."*

As a highly sophisticated new resource in Kongsberg Maritime's 'Full Picture' portfolio of products, solutions and services for all vessels, the DP Digital Survey app reflects the dedicated investment in digital capability which is being exercised by Kongsberg Maritime and its partner firms, delivering practical solutions and measurable benefits to clients while enhancing operational efficiency and safety.

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For further information, please contact:

Gunvor Hatling Midtbø, VP Communication

Kongsberg Maritime

Tel: +47 9921 4209

gunvor.hatling.midtbo@km.kongsberg.com

Saul Trewern

Saltwater Stone

Tel: +44 (0)1202 669244

About Kongsberg Maritime

Kongsberg Maritime is a global marine technology company providing innovative and reliable technology solutions for all marine industry sectors including merchant, offshore, subsea and naval. Headquartered in Kongsberg, Norway, the company has manufacturing, sales and service facilities in 20 countries.

Kongsberg Maritime systems for vessels cover all aspects of marine automation, safety, manoeuvring, navigation, and dynamic positioning. Subsea solutions include single and multibeam echo sounders, sonars, AUV and USV, underwater navigation, communication and camera systems.

Training courses at locations globally, LNG solutions, information management, position reference systems and technology for seismic and drilling operations are also part of the company's diverse technology portfolio.

In parallel with its extensive technology portfolio, Kongsberg Maritime provides services within EIT (Electro, Instrument & Telecom) engineering and system integration, on an EPC (Engineering, Procurement & Construction) basis.

Kongsberg Maritime delivers solutions that cover all aspects of technology underwater and on the water, aboard new build and retrofit vessels, and on offshore platforms and rigs, often under a single supplier strategy called The Full Picture.

Kongsberg Maritime is part of Kongsberg Gruppen (KONGSBERG), an international, knowledge-based group that celebrated 200 years in business during 2014. KONGSBERG supplies high-technology systems and solutions to customers in the oil and gas industry, the merchant marine, and the defence and aerospace industries. www.km.kongsberg.com

About Bureau Veritas

Bureau Veritas is a world leader in laboratory testing, inspection and certification services. Created in 1828, the Group has around 74,000 employees in more than 1,400 offices and laboratories located all across the globe. Bureau Veritas helps its clients to improve their performance by offering services and innovative solutions in order to ensure that their assets, products, infrastructure and processes meet standards and regulations in terms of quality, health and safety, environmental protection and social responsibility. Bureau Veritas is listed on Euronext Paris and belongs to the Next 20 index.

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Corporate website: www.bureauveritas.com/marine-and-offshore Marine client portal: www.veristar.com

Media enquiries

Nicholas Brown, Communications Director

Bureau Veritas

Tel: + 33 (0) 6 04 91 72 41

nicholas.brown@bureauveritas.com
