

GTT obtains Approval in Principle from Lloyd's Register for a maintenance optimisation solution for LNG membrane tanks

Paris – January 19th, 2023. GTT has obtained Approval in Principle (AiP) from Lloyd's Register, a leading provider of classification and compliance services to the marine and offshore industries. The AiP has been granted, in the Framework of Class Survey, for the use of an innovative digital solution for sloshing activity assessment, in order to optimise the LNG membrane tank maintenance. The approval project was conducted in close collaboration with Shell International Trading and Shipping Company Limited (STASCO) whose operational experience supported the validation of the use cases.

This digital solution is based on GTT's "[Sloshing Virtual Sensor](#)" technology, using a tank digital twin¹, also designed by GTT, and the real-time operational data of the floating units (FSRU², FLNG³ and LNGC⁴) to monitor the evolution of critical parameters with regards to tank integrity.

Combined with an appropriate risk analysis, the solution can support Alternative Survey Plans aimed at optimising tank maintenance by extending the period between tank surveys while complying with strict safety standards. This will translate into increased operational flexibility and substantial cost savings for shipowners and charterers.

Philippe Berterottière, Chairman and CEO of GTT, said: *"This Approval in Principle is an important milestone in the validation of this cutting-edge digital technology. Artificial intelligence combined with GTT's LNG core expertise has made it possible to develop this unique solution to help shipowners and charterers reduce their operational costs without compromising vessel safety. We believe that this solution has the potential to become an industry standard in the years to come."*

Panos Mitrou, Global Gas Segment Director, Lloyd's Register, said: *"We are proud to award Approval in Principle for GTT's digital solution for supporting an extension of the time between tank entries after a thorough certification process. This innovative software will provide LNG operators the opportunity to improve overall safety at sea whilst helping them to reduce cost and stay competitive in the global shipping industry and increasing fleet availability in a challenging energy landscape."*

¹ Digital representation of an object or system.

² Floating Storage and Regasification Units.

³ Floating Liquefied Natural Gas.

⁴ Liquefied Natural Gas Carrier.



Press Release

About GTT

GTT (Gaztransport & Technigaz) is a technology and engineering company expert in containment systems with cryogenic membranes used to transport and store liquefied gas, in particular LNG (Liquefied Natural Gas). For over 50 years, GTT has been maintaining reliable relationships with all stakeholders of the gas industry (shipyards, ship-owners, gas companies, terminal operators, classification societies). The company designs and provides technologies which combine operational efficiency and safety, to equip LNG carriers, floating terminals, and multi- gas carriers. GTT also develops solutions dedicated to land storage and to the use of LNG as fuel for the vessel propulsion, as well as a full range of services.

GTT is listed on Euronext Paris, Compartment A (ISIN FR0011726835 Euronext Paris: GTT) and is notably included in SBF 120 and MSCI Small Cap indices.

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