



Secure Water Pipe System for Maersk 'Marib', 'Arwa' and 'Qatar' using Bondstrand® 7000M GRE pipe

Shipowner Maersk recognized the need for a system on their LNG vessels to provide a defense and deterrent system against attacks from pirates. The lower aft deck is the portion of the ship most vulnerable. NOV Fiber Glass Systems worked together with them to design a system which would provide a spray of available water to ward off the attacks. Supply and installation was provided in a 16 day period to meet a critical delivery date. This included delivery of the shut-off valve, supports, required modification on the steel pipe system and hook up. The installations were done at anchorage of Fugaira and Singapore and carried out by our network partners Wecom (Singapore) and Wetering Port Repair (Rotterdam).

Scope

The six inch pipe around the aft deck is equipped with an array of nozzles. The system is fed by an existing system installed on the aft deck. When activated, the system sprays a large amount of water minimizing visibility and making approach or boarding extremely difficult. The system is made of durable non-corrosive materials and requires minimum maintenance. The nozzles are threaded and can be easily replaced if needed.



Installed Bondstrand on the aft deck

Project

LNG Carriers Maersk "Marib", Maersk "Arwa", Maersk "Qatar"

Owner

A.P. Moller-Maersk A/S, Copenhagen - Denmark

Pipe system

Bondstrand 7000M with Quick-Lock adhesive-bonded joints

Diameter: 6 inch (150 mm)
Quantity: 70 m

Operating conditions

Operating pressure: 15 bar
Design pressure max.: 16 bar
Test pressure: 24 bar
Operating temperature: Ambient
Design temperature: max. 93 °C

Installation date

4th Quarter 2009