

Case story | SEM-SAFE® high-pressure water mist system

# M/V Olympic TBN

Easy choice of fire protection system

Danfoss Fire Safety A/S



The vessel M/V Olympic TBN was built by the Norwegian shipyard Ulstein Verft A/S for Olympic shipping. Both Ulstein and Olympic had previously used the SEM-SAFE® high-pressure water mist system from Danfoss, and therefore the choice of fire fighting system was easy.

**Project manager at Olympic Shipping A/S,  
Mr. Harald Hansen:**

*"We like the principle with water as extinguishing medium which is already available onboard. It is also positive that seawater can be used in case of low fresh water level and the extra back up by means of the bottle bank, which is intended for use in case of black out. Furthermore, the SEM-SAFE® system has a high safety level that rules out failures, and the system is easily operated."*

Through a series of projects, Ulstein Verft A/S and Danfoss have established a close cooperation with mutual understanding of the requirements of a water mist system, which not only has to be class approved but also easily accessed and operated. Danfoss not only delivers but also installs SEM-SAFE® systems at Ulstein Verft A/S, which means that the shipyard can concentrate on other installations. Upon completion, a service engineer goes through the entire system, and a commissioning with attendants from the shipyard, shipowner and class surveyor is performed.



### SEM-SAFE® high-pressure water mist system

The SEM-SAFE® water mist system was installed at the Multifunctional Platform Supply Vessel (MPSV) M/V Olympic TBN in 2008. The type of fire protection installed on the 4,900 tonnes deadweight vessel is total flooding in main engine room, including bilge and casing plus switchboard room. In addition, local protection systems have been installed for each of the four main engines, fuel oil separator, boiler and incinerator. In total, 115 nozzles have been installed.

The 2,000x900mm pump unit consists of three main PAH 63/22kW pumps and one standby with a capacity of 318 l/min. Emergency change over box according to DNV rules. The bottle bank has a capacity of 1 minute water discharge in case of black out.

