

## CPC selects state of the art cargo pump room system from Hamworthy



Pump Room Systems Sales Director Terje Bjørnemo signing the contract with Mr Bor Liang Lee, Deputy Director - Materials Department, CSBC

The ships, due delivery from China Shipbuilding Corp in 2011, are being built to Bureau Veritas class, and will be the first tankers from the Taiwanese yard in 20 years.

Terje Bjørnemo, Hamworthy global sales director for pump room systems, said that the selection of low harmonic variable speed drives came after the owner and the yard concluded that the solution was more energy efficient and more dependable than traditional steam turbines that include outdated steam driven piston pumps. The decision was taken in consultation with Taipei-based United Ship Design and Development Centre.

"The equipment will all be controlled and monitored by a Hamworthy Cargo Control System (HCCS), a state of the art PLC-based control system where all signals are electric rather than pneumatic," said Mr Bjørnemo. "In agreeing on this modern solution, the owner will benefit from all of the advantages conferred by PLC-based control."

Type HCCS is a modular ship automation system controlling and monitoring the complete cargo and ballast handling process, as well as taking care of all

alarm and shutdown functions for maximum safety. The system is prepared for easy interconnection at various levels with other control systems on board, forming an integrated total system.

Using frequency converters means that the pumps can operate at optimum performance during any unloading conditions, resulting in higher total system efficiency and lower power consumption. When used as a direct drive force, electric motors also increase system efficiency compared with alternative systems.

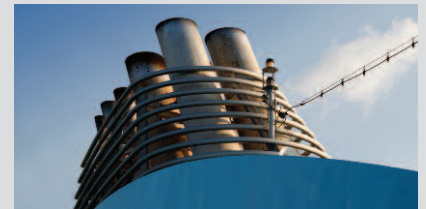
Rafal Krocza, Hamworthy managing director of Hamworthy Baltic Design Centre (HBDC), said: "A study conducted this year at the HBDC established that steam turbine-driven cargo pumps create almost three times the CO2 emissions and double the fuel consumption when compared to electrically-driven systems during offloading operations."

Mr. Bjørnemo added: "The benefits of this technology also include improved life-cycle costs, reduced noise emissions, lower maintenance, reduced installation and commissioning costs, greater operational flexibility, and safer operation."

### In the know....

#### **Hamworthy Krystallon scrubbers qualify as EPA "Emerging Technology" to reduce particulate matter**

Hamworthy Krystallon has become the first non North American-based company to be awarded accreditation as a manufacturer of an 'emerging technology' that has the capability to reduce marine Particulate Matter emissions by the United States' Environmental Protection Agency (EPA).



Sigurd S. Jenssen, Managing Director, Hamworthy Krystallon Ltd, said: "The EPA emerging technology program provides an excellent opportunity for Hamworthy Krystallon to obtain vital operational feedback from partners. It enables us to show partners in North America that seawater scrubbing is the most cost-effective and definitive means of reducing Particulate Matter emissions - going beyond reduction levels achievable from using lower sulphur fuels to meet new emissions standards.

To find out more about Hamworthy's expertise on exhaust gas cleaning please click [here](#).

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