

For Immediate Release

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Severn Trent De Nora's BALPURE® Ballast Water Treatment System Receives Type Approval

As one of the most tested and proven treatment solutions, BALPURE offers ship owners and managers of large vessel fleets a flexible, effective and economical solution for ballast water treatment.

FORT WASHINGTON, Pa. – 11 August 2011 – The [BALPURE® ballast water treatment system](#) from Severn Trent De Nora has received Type Approval* to International Maritime Organization (IMO) regulations for ballast water. The BALPURE system is a reliable electrolytic disinfection treatment solution that surpasses IMO D-2 standards with no adverse effects on the environment or vessels. Over the past eight years, the BALPURE system has received third-party verification** for meeting rigorous standards for performance, corrosion and safety.

As the market leader in the design and manufacture of electrolytic seawater disinfection systems, Severn Trent De Nora has applied its 35-plus years of marine equipment experience to the treatment of ballast water with the BALPURE system. With its flexible footprint, ease of operation and significant economic benefits, the BALPURE system is positioned to become the preferred method of ballast water treatment for ship owners and managers on new build and existing vessels.

Using a slip stream approach in which one percent of the total ballast water flow is used to generate the hypochlorite disinfection solution, the BALPURE system can be operated in low-salinity, low-temperature environments. The slip stream approach also enables the system's remote mounting away from ballast lines. The BALPURE system is commonly supplied in six small, sub-assembly components to further facilitate its ease of installation.

The slip stream approach represents a major advantage on vessels with pump rooms or hazardous cargo areas because the BALPURE system can be installed in the engine room or in auxiliary machinery spaces classified as safe areas. As a result, precious space in the pump room is not taken up and the expensive relocation of equipment is not required. The filters are the only part of the BALPURE system required for installation in the pump room.

The BALPURE system operates autonomously throughout the ballasting / deballasting cycle. It utilizes a proven electrolytic treatment process to generate a disinfectant solution, on site and

on demand, using only electricity and seawater. A residual disinfectant remains in the ship's ballast water tanks and can be adjusted to match voyage duration, eliminating possible regrowth of organisms during transit. All active compounds generated in the electrolytic disinfection process are safely neutralized before deballasting.

Accommodating ballast water treatment for vessels ranging from 500 to 20,000+ m³/h, the BALPURE system is especially advantageous for crude oil tankers, chemical / product tankers, LNG / LPG carriers, bulk carriers and container ships. BALPURE features low power requirements, low maintenance requirements and simple operation.

** BUNDESAMT FÜR SEESCHIFFFAHRT UND HYDROGRAPHIE (BSH), Hamburg, Germany was the approving agency for the BALPURE system. Class Society Type Approval applications are in process with ABS, BV, DNV, LR, GL and NK.*

***The BALPURE system has been land-based tested at Naval Research Labs Key West (Florida, USA), Royal Netherlands Institute for Sea Research and Maritime Environmental Resources Center (Maryland, USA). Shipboard testing was performed on the Training Ship Golden Bear, owned by the U.S. Department of Transportation, operated by the California State Lands Commission and the California Maritime Academy.*

About Severn Trent De Nora, LLC

Severn Trent De Nora, LLC (www.severntrentdenora.com) is a joint venture offering a solid foundation to support marine and offshore industrial water disinfection needs by drawing upon the strength and global resources of Severn Trent Services, Fort Washington, Pa. (www.severntrentservices.com) and Gruppo De Nora, Milan, Italy (www.denora.it). Severn Trent De Nora offers the benefits of enhanced technical solutions and a greater range of services by combining the seawater disinfection capabilities of both companies. Severn Trent De Nora offers products to serve marine wastewater treatment applications and the seawater disinfection needs for the following applications: power generation, desalination facilities, coastal industry, offshore oil and gas facilities, general marine, cruise vessel industry and navies worldwide.

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