

## JFE BallastAce Adopted for Vessels in Service on Sea Routes in North America

– Order for Systems for 12 Vessels Received from Fednav Limited,  
the largest ship owner in Canada –

JFE Engineering Corporation (Head Office: Chiyoda-ku, Tokyo; President and CEO: Hisanori Kanou) announced today that it has received an order for its ballast water management system from Fednav Limited (Head Office: Montreal, Canada; President: Paul Pathy; hereafter, “Fednav”). Fednav will mount the ballast water management system on 12 new vessels, which the company will build by 2016.

Concerning ballast water regulations, the International Marine Organization (IMO) adopted the International Convention for the control and management of Ships’ Ballast Water and Sediments in 2004, and conditions for the Convention are expected to be satisfied soon. The JFE BallastAce, a ballast water management system from JFE Engineering, was granted the type approval from IMO in 2010 and has been adopted for more than 700 ships so far.

The United States Coast Guard (USCG) has come up with even tougher ballast water regulations, and ships in service in USA are obliged to mount ballast water management systems that have its type approval. At present, however, there is no system with type approval from USCG. Ships with systems satisfying IMO standards are permitted to be in service for five years. JFE Engineering is applying for type approval from USCG, planning to begin the land-base test in June this year and then begin the shipboard test within the current fiscal year.

Fednav is the largest Canadian operator of international ships in the Great Lakes – St.Lawrence Seaway System, which are under USCG regulation. The company began to study ballast water management on its own initiative at an early stage and has been evaluating the performance of different systems. The company gave high marks to the performance of the JFE BallastAce and decided to adopt it for new ships to be built by the company by 2016. The company is also considering the system for existing ships it owns.

With cooperation from Fednav, JFE Engineering will demonstrate the effectiveness of its ballast water management system in light of the USCG regulations and step up activities for proposing the system to ship owners around the world who have sea routes in USA.

JFE Engineering will continue to propose the optimal ballast water management systems for various ship types and sea routes, helping to preserve the world’s marine biodiversity.

\*Summary of the order

Customer (Ship owner)	Fednav Limited	
Number of ships on which the system will be mounted	12 (35,000DWT bulk carriers)	
Period when the system will be mounted	7 ships: May 2015 to June 2016 (during construction)	5 ships: Autumn of 2017 or later (during dry dock after they go into service)
Shipyard	Oshima Shipbuilding Co., Ltd. (Saikai-shi, Nagasaki)	