

## **Berthing/Unberthing Supporting System with new functions**

### **to be installed on large vessels carrying hazardous cargoes**

Mitsui E&S Shipbuilding Co., Ltd. (Headquarters: Minato-ku, Tokyo; President: Yasunori Kohatake), Akishima Laboratory Inc. (Headquarters: Akishima-shi, Tokyo; President: Kazuyuki Igarashi) and ENEOS Ocean Corporation (Headquarters: Nishi-ku, Yokohama-shi; President: Takashi Hirose) have decided to add new functions to the jointly developed Berthing/Unberthing supporting system ("the Supporting System") and to install it on all Very Large Crude Carrier (VLCC) operated by ENEOS Ocean Corporation.

This Supporting System, jointly developed for a large crude oil tanker (Aframax) in 2022, incorporating the port-entry supporting technology of Akishima Laboratory, the automatic navigation technology developed by Mitsui E&S Shipbuilding and the ship-handling know-how cultivated by ENEOS Ocean Corporation over many years in the safe transportation of hazardous materials on large vessels, assists the ship operators in grasping the position and behavior of the vessels and improves safety when leaving and arriving at the pier. This Supporting System has now been additionally developed with a function to support single-point mooring buoys, and will be implemented on all VLCC operated by ENEOS Ocean Corporation.

This Supporting System is expected to not only improve the safety of marine transportation by preventing high risk ship-handling accidents, but also reduce the workload of ship operators as well as environmental risks caused by accidents.

[Outline of three companies]

Mitsui E&S Shipbuilding Co., Ltd.

Established: May 2017 (Founded in November 1917)

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Business: Ship Design & Engineering, Technical Consulting / Drawing Supply, Dispatch of Engineer, Ship Digitalization, Sales of Dual Fuel Supply System, Brokerage Service, etc.

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