

Mitsui E&S Shipbuilding obtains ClassNK's AiP of LFSS for marine engines

Mitsui E&S Shipbuilding Co., Ltd. (Mitsui E&S Shipbuilding) obtained Approval in Principle (AiP) of a Low-flashpoint Fuel (MeOH) Supply System (LFSS) for low-speed main engines from Nippon Kaiji Kyokai (ClassNK), on April 11, 2024.

This LFSS developed for methanol-fueled main engines is of simple and compact design achieving minimum main components as well as small in size and weight. The main components consist of pumps, heat exchangers, and a control system, with manufacture outsourced to Japanese companies. Therefore, Mitsui E&S Shipbuilding will be able to provide operation manuals in Japanese and English as well as flexible supports to the various inquiries of users.

Engineers of Mitsui E&S Shipbuilding will also be ready to attend commissioning tests and trial operations. Adoption of the Mitsui E&S Shipbuilding LFSS assembled in Japan will eliminate the need to invite engineers of overseas manufacturers to Japan and to dispatch engineers for the factory acceptance test (FAT) held abroad, which will reduce the administration and costs for Japanese shipbuilders as well as overseas shipowners who want to construct new ships in Japan.

Strengthened regulations for environmental protection will require conversion of the fuel for marine engines from the conventional heavy oil to new fuels including methanol. This switchover to new fuels will require much time and effort to be expended by the users.

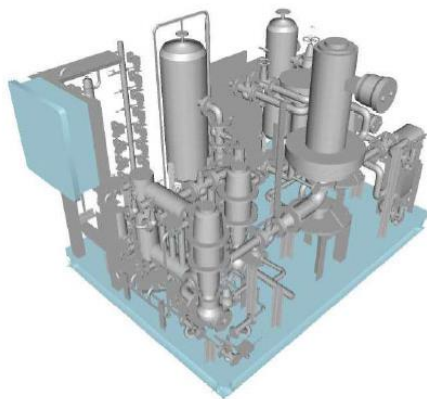
Mitsui E&S Shipbuilding intends to support users of the new fuels by introducing the new LFSS and to supply expertise as part of the effort to achieve Carbon Neutral 2050.

[AiP Award Ceremony at Sea Japan 2024]



Mr. Masaki Matsunaga, Executive Vice President / Director of Plan Approval and Technical Solution Division of ClassNK (at left) and Mr. Yasunori Kohatake, President Representative Director of Mitsui E&S Shipbuilding Co., Ltd. (at right)

[Diagram of LFSS]



The main components are pumps, heat exchangers, a control system and so on.
Above diagram is as a reference. The specifications and components may be changed.

[Outline]

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Established: May 2017 (Founded in November 1917)

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Business: Ship Design & Engineering, Technical Consulting / Drawing Supply, Dispatch of Engineer,
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