

December 8, 2021

Kawasaki Kisen Kaisha, Ltd.

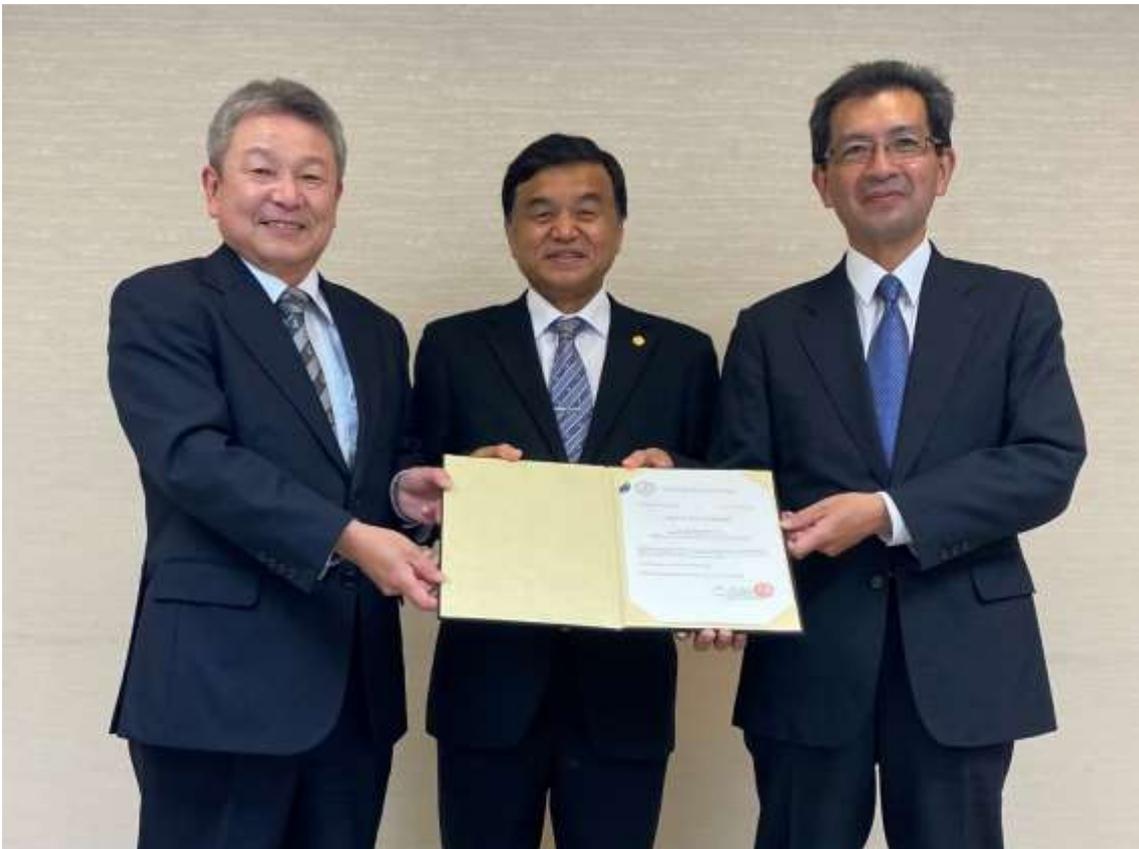
Joint Approval in Principle (AIP) for New Concept Design of Ammonia Fueled Car Carrier

Kawasaki Kisen Kaisha, Ltd.(herein called “K” Line) and SHIN KURUSHIMA DOCKYARD CO., LTD.(herein called Shin Kurushima Dock) have joint AIP for the concept design of Ammonia Fueled Car Carrier from NIPPON KAIJI KYOKAI(herein called ClassNK).

As ammonia fuel does not emit carbon dioxide (CO<sub>2</sub>) during combustion, it is attracting attention as a next-generation marine fuel that will greatly contribute to the International Maritime Organization's (IMO) strategic goal of GHG reduction by 2050, which is to reduce total GHG emissions by 50% from the 2008 level.

In this joint study, Shin Kurushima Dock, ClassNK and “K” Line formulated a potential risk assessment and safety measures for using ammonia as a fuel. Based on the safety evaluation of ammonia fuel, Shin Kurushima Dock and “K” Line worked on the development of a ship that can both reduce environmental impact and meet actual operational requirements.

While watching international regulations tendency of Ammonia fueled and infrastructure situation, we are planning to study ammonia fueled vessels in more detail.



AIP granting ceremony

( From left )

Dr. Toshiyuki Shigemi, Executive Director, Senior Executive Vice President, ClassNK

Mr. Yoshio Tanaka, Director, Executive Managing Officer, Shin Kurushima Dockyard

Mr. Toyohisa Nakano, Executive Officer, General Manager of Ship Technical Group,

"K" LINE



An image of Ammonia Fueled Car Carrier

"K" Line has revised a part of its long-term environmental guideline, "K" LINE Environmental Vision 2050\*1, and has set a new goal for 2050 "to achieve net zero GHG emissions".

The world is facing an urgent need to strengthen its measures to climate change, and governments and industries are accelerating their efforts to achieve net zero GHG emissions in 2050. Under such circumstances, our group is challenging to achieve a higher goal of "Net Zero GHG Emissions in 2050", and this research is one of the initiatives that will lead to the goal in 2050.

As a comprehensive logistics group based on the shipping industry, "K" Line Group will continue to work to reduce its environmental impact in order to realize a sustainable society and increase its corporate value, based on its corporate philosophy of "contributing to the enrichment of people's lives".

\*1 "K" LINE ENVIRONMENTAL VISION 2050 can be seen in below link:

<https://www.kline.co.jp/en/csr/environment/management.html#002>