Management Overview

April 25, 2019 Kawasaki Heavy Industries, Ltd.



Trend of Financial results





Rolling Stock Business Restructuring Committee – Discussion Results



Reasons for recording losses in Rolling Stock Business

Inadequate risk recognition at bidding and insufficient cost, design, and quality management are the main factors

M9	 Planned cost reduction cannot be achieved based on a decrease in the final amount of delivered train cars. Increase in material costs due to unachieved cost reduction target and rising prices of procured products. Excessive time to agree on the specification interpretation with the customer, causing process delays.
Projects in Japan	 Unachieved cost reduction target. Higher material costs than expected. Difference in specification interpretation with customers.
Other Projects in U.S.	 Wiring installation defects found in project for WMATA*, and required repairs of the delivered cars. (Due to work procedures and training)

*Washington Metropolitan Area Transit Authority



Rolling Stock Business Restructuring Committee – Discussion Results

Restructuring business voluntarily by executing the following policies:

Policy Strengthen Project Management

Policy² Reform Quality Management System

Emphasis on quality over quantity

- Japan
 While maintaining an strong competitive environment among rolling stock manufacturers, we will receive orders at the appropriate price by maintaining and strengthening non-price competitiveness utilizing technology.
 - Supply high-value-added key components.
- Policy America North •Develop business focused on customers whom we can demonstrate our superiority based on past delivery results. (NY subway etc.)
 - Promotion of new business such as track monitoring business utilizing IoT technology.
 - While a large number of Asian yen loan projects are expected based on the promotion of railway infrastructure exports by Japanese government, dealing mainly with low risk yen loan projects and securing profitability.

Compre • Expansion of stock-type business with strength in increasing number of delivered cars.

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Status of Projects in North America



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Progress of Restructuring of the Ship & Offshore Structure Segment



1. Progress of restructuring

Basic policy :	Shifting merchant ship's construction (mainly gas carriers) from Japan to China			
Key measures :	Reduction of construction capacity in Japan (2docks→1dock) Expansion of construction capacity in China (3docks→4docks)	Productivity improvement (Reduction in manufacturing costs and fixed costs)	New-build orders (3-4 ships orders per year for LNG carrier, LPG carrier and gas related vessels etc.)	
Progress :	O 4th Dock in China started its operation since March 2019	O Periodical target achieved successfully as of FY 2018	X In FY2017-2018 orders of 3 LPG carriers and a LNG bunkering vessel but no order of LNG carrier received	

Summary : Two of three key measures have been implemented successfully, but no order of LNG carrier has been received due to sluggish new-build market, the delay of expected large LNG development projects and led by aggressive price strategy by Korean shipyards. Therefore we received orders of two bulk carriers to cope with factory fixed cost.

> Ship & Offshore Structure segment has made profits since the second half of FY 2017. However, in FY 2019, it is expected to be in the red due to temporary shortage of operations and increase of low profitable projects.

2. Business policy

• Demand for new-build LNG carriers is expected to increase largely based on the expanding LNG demand mainly in Asia.

Recognition of current situation

- Some of large-scaled LNG development projects, such as Mozambique LNG project and Qatar's LNG Expansion project, will get move forward from this year, and activities for new-build LNG carriers are expected to brisk.
- Demand for gas-related vessels is definitely increasing due to strengthening of environmental regulations.
- As it may take time but the new-build market will recover steady, we will deepen our integrated management with our joint venture shipyards in China, such as jointly receiving a series of order by both parties and sharing the construction each other.
- Business policy
- We shall continue to carry out restructuring program in order to achieve surplus in FY2020 and furthermore get to a pre-tax ROIC of over 8% thereafter.





Source: Mizuho Bank, Industry Research Dept.

Schedule of environmental regulations for ships

K Kawasaki

Powering your potential

(reference) DACKS second dock completed

In March 2019, the second dock of our China joint venture, Dalian Cosco KHI Ship Engineering Co., Ltd. (DACKS) was completed. We will enhance our competitiveness by strengthening our technology transfer and cooperation, and aim to expand earnings as a Ship & Offshore Structure Segment.



DACKS factory panoramic view. Right dock is the second dock.

[DACKS Company Profile]



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