A LNG risk assessment has to be accepted by the Class society and flag state authority. Risk Assessment will be carried out according to IMO Resolution MSC.285(86) and Class rules.

The service range includes:

- a HAZID of the intended integration of the gas system
- a FMEA based on the detailed design taking into account external influences of the port operation acting on the operation and the bunkering of the gas-fuelled vessel

Result will be documentation required to receive approval and recommendations to safety relevant equipment.
Benefit Case – Ensuring a Safe Use of Gas as Fuel Onboard a Container Vessel

SITUATION AND CRITICAL ISSUE

Gas-fuelled container feeder

A shipyard received an order for a series of 1200 TEU gas-fuelled Feeder vessels. Ensuring a safe integration of the fuel gas supply system onboard the vessels and a safe bunkering during cargo loading and unloading operations within the port area, the shipyard contracted DNV GL to conduct a Risk Assessment for the fuel gas supply system.

DNV GL SOLUTION

- A twofold strategy was applied:
  a) Conduction of a HAZID of the intended integration of the gas system onboard the vessel in the early design phase,
  b) Execution of a FMEA based on the detailed design taking into account external influences of the port operation acting on the operation and the bunkering of the gas-fuelled vessel

VALUE DELIVERED

- The Risk Assessment gave the recommendation to order safety relevant equipment in an early design phase
- The Risk Assessment resulted in a documentation required for the approval process on the part of the classification society and the flag state
- DNV GL supported the customer to receive an approval of the flag state for the operation of the gas-fuelled vessel

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MA services and benefit cases