Benefit Case – Arctic Shipping Risk

SITUATION AND CRITICAL ISSUE
Identify and Mitigate the additional Arctic Shipping Risk
The additional challenges experienced during cold climate operations will contribute to an increased risk as the consequences of an incident will be more severe (remoteness, low temperatures, ice, icing, wind-chill effect, fog etc.)

DNV GL SOLUTION
- Review of planned operation and met-ocean data for the actual navigational route
- 2 day hazard identification (HAZID) workshop at customer’s premises
- Qualitative risk evaluation of the hazards identified including means to reduce and mitigate risk
- Recommendations with regard to Ice-Class, Winterisation, Training etc.
- Possible other operational limitations

VALUE DELIVERED
- The risk assessment made the customer in a better position to make sound decisions with respect to the identified risks and mitigation options
- Recommendation to owner/operator with regard to Ice-Class, Winterisation and operational limitations
- Qualitative Cost/Benefit evaluation for the different proposed solutions
- Arctic training and awareness workshop for the people involved in the planned operation

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MA services and benefit cases
Benefit Case – Arctic Operations & Technology

SITUATION AND CRITICAL ISSUE

Navigational risk of the North East passage for gas carrier owner

The gas carrier was due sailing through the North East passage in August – September 2011 and customer needed to assess the additional navigational risks to take the necessary precautions ensuring safe navigation in arctic conditions.

DNV GL SOLUTION

- The assessment of the navigational risks was based on the following procedure:
- Review of metocean information from the navigation route
- 1 day hazard identification (HAZID) workshop at customer’s premises
- Qualitative risk evaluation of the hazards identified including means to reduce and mitigate risk

VALUE DELIVERED

- The risk assessment made the customer in a better position to make sound decisions with respect to safe navigation in arctic conditions:
- Clearly defined lines of command between vessel and external parties involved in the operations
- Means of evacuation taking different ice conditions and LNG carrier ice-breaking capabilities into account
- Systems and procedures for getting people out of the water, taking due account of different ice conditions

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