

A wide-angle photograph of a seascape under a dramatic, cloudy sky. The water is dark with white foam from waves. A small boat is visible in the distance. The overall mood is atmospheric and somewhat somber.

Rotterdam 14th November 2016 COA General Meeting



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Non Operating Reefers

A joint COA, CINS, TT Club project.



GUIDELINES



CINS

Cargo Incident Notification System

- Non Operating Reefers



Background



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▶ INTRODUCTION

- ▶ Refrigerated containers (known as reefers) are designed to be used to transport temperature controlled cargo. Since there may be insufficient temperature controlled cargo for a 'return' leg, reefers would normally be positioned empty to a demand location.
- ▶ In order to minimise empty repositioning costs, container operators may use reefer containers in a non-operating mode to carry approved dry cargo on a return leg. Such cargo is described as non-operating reefer cargo (NOR cargo).
- ▶ NOR cargo is defined as a cargo that is approved for packing into a refrigerated container to be transported **without** operating the refrigeration machinery.



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- ▶ Transporting NOR cargo enables the carriage of additional cargo in busy trade lanes where reefers need to be positioned for their next cargo move, but are competing for slot space with revenue earning dry cargo.
- ▶ Reefer containers differ from General Purpose (GP) containers in both design and materials. This must be taken into account in relation to the approval of and packing requirements for NOR cargo.
- ▶ These guidelines are intended to help container operators and shippers in making decisions that appropriately protect both cargo and containers.

Challenges



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▶ Reefer Interior

- ▶ Smaller internal dimensions than a GP container require increased awareness and attention from packers
- ▶ Limited lashing points and only in the floor mean that effective blocking/bracing is required for cargo securing
- ▶ Front-heavy weight distribution from refrigeration machinery should be taking into account in planning cargo distribution
- ▶ Materials used for construction are less robust and particularly susceptible to piercing or stress
- ▶ Unpainted metal surfaces are susceptible to corrosion from cargo and improper cleaning processes

To be published



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THANK YOU