Type C tank barge “Don Quichot”

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Content

► Introduction “Don Quichot” *(INF 12: Addendum to ECE/TRANS/WP.15/AC.2/2017/15)*

► Derogations *(ECE/TRANS/WP.15/AC.2/2017/15)*:

- 1.2.1 Flush deck
- 9.3.2.17.2 Entrance to spaces and openings
- 9.3.2.17.6 & 9.3.2.28 Alarms, signals and activation of safety devices
Introduction “Don Quichot”
Introduction “Don Quichot”

- Type C tank barge with an integrated degassification facility
- Review according to ADN standards
- Assess the risks involved in the process of the degassing, taking into account the equipment installed, their redundancies and bearing in mind all known ADN safety standards.
  - All system operations and data is regulated by Siemens class type approved PLC, supported by software dictating safe operating windows. System has safe shutdown mode in case of deviations.
### Safety features per section

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Derogations
9.3.2.11.2 (a) In the cargo area (except cofferdams) the vessel shall be designed as a flush-deck, double-hull vessel, with double-hull spaces and double bottoms, but without a trunk.
Mitigating measures

- Extended hazardous areas according Bureau Veritas rules
9.3.2.17.2 Entrances to spaces and openings of superstructures shall not face the cargo area. Doors opening outward and not located in a recess the depth of which is at least equal to the width of the doors shall have their hinges face the cargo area.
Mitigating measures

- At the door a gas detection system is installed. This system is accompanied by an optical signal which signals whether the gas detection system functions well.
9.3.2.17.6 (partly) The audible and visual alarms are installed in the wheelhouse and in the cargo pump-room and, when the alarm is actuated, the loading and unloading system is shut down. Failure of the gas detection system shall be immediately signalled in the wheelhouse and on deck by means of audible and visual alarms;

9.3.2.28 (partly) The system shall be capable of being put into operation from the wheelhouse and from the deck. Its capacity shall be such that when all the spray nozzles are in operation, the outflow is not less than 50 litres per square metre of deck area and per hour.
Mitigating measures

- All relevant alarms and signals, and switches to turn on safety devices, are located in the service spaces on board of the barge.