**LNG TRUCK APPROVAL CHECKLIST**

**Following information to be provided to Fluxys LNG by e-mail (**[**LNG-TruckApproval@fluxys.com**](mailto:LNG-TruckApproval@fluxys.com)**):**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| D |  | Truck Company | | | |  | | | | |
| I |  | Truck Code | | | |  |  |  | |  |
| D |  | Manufacturer | | | |  |  |  | |  |
| D |  | Total volume of tank (cold condition) | | | | m³ | m³ | m³ | | m³ |
| D |  | Unladen tare mass of ‘container + chassis’ or ‘trailer’ | | | | kg | kg | kg | | kg |
|  | 1. **Required information** | | | | | | | | | |
| D |  | * 1. Dimensions of the semi-trailer (length, width, height)   Length:  Width:  Height: | | | | | | | | |
|  |  | * 1. Dimensions of flanges: required coupling should be | | | | | | | | |
| I |  |  | * + 1. LNG line: flange 3” - 150# - male coupling half DN65 TR104 x 8 LH threaded (Mat 1.4571).   Messer Griesheim specification 792.10832 | | | | | | | |
| I |  |  | * + 1. Boil-off line: flange PN40-DN40 male coupling half DN40 TR69 x 8 LH threaded (mat 2.0592.02 & 2.0360.08) | | | | | | | |
| D |  | * 1. Pictures of the semi-trailer: i.e. general picture showing the complete truck, picture from the valve cabinet, flanges, rear, side, equipotential and earth connection | | | | | | | | |
|  |  | * 1. Technical data and P&ID of the semi-trailer | | | | | | | | |
| D |  |  | * + 1. Setpoint of relief valves:       bar(g) | | | | | | | |
| D |  |  | * + 1. Trycocks and their respective filling level:         at       %        at       %        at       % | | | | | | Used by Fluxys | |
| I |  | * 1. The trailer SHALL be presented under natural gas atmosphere or under inerted nitrogen atmosphere | | | | | | | | |
| D |  | * 1. Last annual report of Client’s ADR safety advisor (DGSA) | | | | | | | | |
| D |  | * 1. Safety Impact Analysis Study in compliance with the “Instructions for a side and overturning impact analysis and report based on the finite element method (FEM)”, as described in Attachment 1 to Appendix III (ref. Fluxys, FVDW/2010-06-08, version 1.01) | | | | | | | | |
| D |  |  | * + 1. The material of the outer vessel shall be either stainless steel or carbon steel | | | | | | | |
| D |  |  | * + 1. The material of the inner vessel shall be stainless steel | | | | | | | |
| D |  |  | * + 1. The trailer shall be vacuum insulated (super vacuum or vacuum with perlite) | | | | | | | |
|  | 1. **Minimum technical requirements for the Truck-Trailer combination** | | | | | | | | | |
|  |  | * 1. Conform to: | | | | | | | | |
| D |  |  | * + 1. the ADR regulations (container/trailer/truck) | | | | | | | |
|  |  |  | * + 1. the IMDG regulations | | | | | | | |
| D |  |  |  | | * + - 1. T75 for mobile containers | | | | | |
| D |  |  |  | | * + - 1. IMO(8) for trailers | | | | | |
| D |  | * 1. Air connection for emergency shutdown of the semi-trailer’s pneumatic valves so they shall be remotely closed in case of emergency (= loss of air/nitrogen pressure): preferably install a male quick coupling LEGRIS – 90873021 on the semi-trailer. Supply air pressure = 7 barg | | | | | | | | |
| D |  | * 1. Purging of the hoses after completion of the loading operation: * Possibility to purge the hoses from boil-off line towards the semi-trailer and back through the LNG line (through bypass) * If not, preferably install (a) male quick coupling(s) ERITITE ETF 50 – Stainless Steel (10037319) on the semi-trailer to connect a nitrogen hose | | | | | | | | |
| I |  | * 1. Sturdy and reliable equipotential earth connection for an emergency shutdown circuit | | | | | | | | |
| I |  | * 1. Suitable device to check whether or not the vessel is in an empty condition. | | | | | | | | |
| D |  | * 1. The discharge of the trycocks shall be at a safe location, i.e. at a safe distance from the valve cabinet and from the emergency buttons of the semi-trailer. | | | | | | | | |
|  |  | * 1. Identification tag on truck (sticker) | | | | | | | | |
| I |  |  | | * + 1. Product name | | | | | | |
| I |  |  | | * + 1. Truck code | | | | | | |
|  | 1. **Minimum requirements for the Truckers** | | | | | | | | | |
| I |  | * 1. Drivers shall have notice of Dutch, English or French. | | | | | | | | |

D = To be demostrated by documentation I = Confirmation required

= Information still to be provided  = Information already received

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| REV | DATE |
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