**LNG TRUCK APPROVAL CHECKLIST**

**Following information to be provided to Fluxys LNG by e-mail (****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 [x]  = Information already received

|  |  |
| --- | --- |
| REV | DATE |
|       |       |