Proposal for amendments to UN Regulation No. 110

The text produced below has been prepared by the Chairman of the LNG Task Force (LNG TF) (Netherlands) to address issues and concerns about proposed amendments to R.110 (ECE-TRANS-WP.29-GRSG-2013-7e) by the Delegate from France. In this case, the amendments more accurately identify the correct device for cryogenic applications as well as improved internal consistency within the proposed amendments in R.110.

I. Proposal

Annex 4O, paragraph 2.7., correct to read:

"2.7. LNG fuel pump shall be provided with pressure relief device valve to limit the pressure to the maximum safe working pressure of the pump."

II. Justification

This proposed amendment correctly refers to the device intended for cryogenic applications. Pressure relief valves (PRVs) are designed specifically to allow liquid gas to be vented, if needed, whereas pressure alone from the pumped fuel would not normally trigger a PRV.

Once opened, PRVs close again if fault clears or pressure is reduced to safe level, minimising LNG loss, whereas pressure relief devices (PRDs) are one time devices that vent all pressure from system even if fault condition clears.