Alternative methods for periodic inspection of refillable pressure receptacles

Agenda for the next WG meeting following the Geneva JM of 22/09/2016

Transmitted by the European Liquefied Petroleum Gas Association (AEGPL) on behalf of the Working Group

1- Proposed items:

- Clarify uncertainties on the scope of the statistical tests:
  - Make clear for which types of cylinders it can be applied
  - Make clear which ADR 6.2.1.6.1 checks (a to e) are concerned
- Be more precise and consistent in using statistical terms applied to pressure receptacles
- Be clearer on the responsibilities for manufacturers (eg availability of cylinder’s data), owners, filling centers, retest facilities & inspection bodies
- Provide more detailed requirements with regards to activities of sampling, destructive tests and statistical analysis
- Improve the determination of population groups for statistical purposes (sampling)
- Define minimum sampling size. (linked to the confidence level)
- Statistical methods shall enable to monitor degradation (ageing) of mechanical properties. (note : no requirements in the ADR concerning in service ageing tests / residual life time beside Note 2 in 6.2.2.1.1 and 6.2.2.1.2)
- Analyze methods for Periodic Inspection with respect to their capability to measure degradation (ageing) concerning determination of life time.
- Demonstrate the equivalent safety level for known examples
- For safety level comparison, the group needs current failure rate in service
- Come back to the OMCs specific proposal, as a detailed illustration « of an alternative methods »
• Analyze whether there are appropriate NDT methods
• Consider Interactions with standardization (CEN – ISO)

2- Agenda for the next meeting:

Dates and place: Paris: 10 & 11th of January 2017 (at CFBP)

Proposed Agenda:
• Consider all above mentioned concerns
• Review available data on existing failure rates
• Review the revised general provision (to be circulated before the next meeting)
• Improve the specific provision for OMC, and the justifications (revised version to be circulated before the next meeting)
• Consolidate, in parallel with OMC, the general provision

for presentation with an inf paper to the next JM in Bern March 2017 meeting