



ISO/TC 197
Hydrogen technologies

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ISO TC 197 WG 5 Report - 2016-12

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PROGRESS REPORT

ISO TC 197/TC 22/Joint WG 5

Gaseous hydrogen land vehicle refueling connection devices (ISO 17268:2012)

Hotel Zuiderduin

Egmond aan Zee, The Netherlands

December 8, 2016

- WG 5 meeting at CSA offices in Tokyo held on Feb. 29, 2016 had 16 members in attendance representing Canada, USA, France, Germany, UK, Japan.
- WG 5 meeting at Shell offices in Amsterdam, held on Dec. 6, 2016 had 14 members in attendance representing Canada, The Netherlands, Japan, France, Germany.
- WG 5 reviewed comments to ISO 17268:2012 with the identification of a few critical outstanding resulting in the following actions:
 - Added freezing test to resolve nozzle lock on after fueling
 - Added communication hardware tests
 - Made the following modifications to address station pressure issues:
 - Changed MWP to MOP
 - Added text to Scope:

As stated in ECE/TRANS/180/Add. 13 Global Technical Regulation No. 13 (Global technical regulation on hydrogen and fuel cell vehicles – 19 July 2013), “Assurance of capability to sustain multiple occurrences of over-pressurization due to fuelling station failure is provided by the requirement to demonstrate absence of leak in 10 exposures to 150 per cent NWP fuelling.” Nozzles and receptacles defined in this International Standard shall be tested in this way to accommodate similar fuelling station over-pressurization occurrences.

Nozzles that have been subjected to 10 over-pressurization occurrences shall be removed from service.

- Receptacles and nozzles are now subjected to 10 pulses to 1.5x NWP after gas cycling.
- Added non-mandatory nozzle marking that states: PRV set-point $\leq 1.375x$ NWP
- Request guidance from WG 24 regarding whether this approach is suitable and whether it could be suggested for other station component WGs.

- Document will be submitted for DIS ballot within a few weeks.
- Next meeting scheduled for late summer/early fall in Germany after DIS ballot.