



ISO/TC 197
Hydrogen technologies

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WG 21 22 23 progress reports for 2015 Plenary rev1

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Background: This is a presentation from the 2015 plenary meeting in California.

Committee URL: <http://isotc.iso.org/livelink/livelink/open/tc197>

WG 21: Compressors - Progress Report

- Meetings held June 8 and December 1, 2015.
 - WD 2 to be circulated using new format and proposed text for filling resulting gaps
 - Inclusive of various compressor types
- Coordination key with WG 19, WG 24
 - To confirm with WG 24 pressure rating issue not applicable as compressor is separate from dispensing system.
- TC/197 issues
 - Request WG 21 access to ISO 13707:2000 (Table 4): Relief Valve Settings

Schedule for standardization of ISO/TC197 WG21 (ISO19880-4)

Dec.1, 2015













Year 2014	2015	2016	2017
<p>1st meeting</p> <p>Dec 1</p>	<p>WD (circulation) (Feb-Mar)</p> <p>2nd meeting (June 12)</p> <p>3rd meeting (Dec 2)</p> <p>Washington, DC USA</p> <p>Plenary Torrance, CA USA</p>	<p>WD2 (circulation) 2 months (Jan-Feb)</p> <p>CD (circulation) 3 months (Apr- June)</p> <p>TBD 4th meeting</p> <p>5th meeting (July/August)</p>	<p>DIS (circulation) 5 months (Sep - Jan)</p> <p>FDIS (optional) (Feb-Mar)</p> <p>IS issue (June)</p>

WG 22: Hoses - Progress Report

- Meetings held June 12 and December 2, 2015.
- Coordination key with WG 5, WG 19, WG 24
 - Presentation on Current status of Hydrogen Impulse Test - Mr. Hatanaka (Yokohama Rubber)
 - Presentation on Study about the allowable permeation rate from a hose - Mr. Ito (HySUT) to be shared with WG 19
 - WG 22 to address requirements for the ½ fitting at the dispenser end of the hose (end connector) with appropriate hand offs
 - Need to coordinate with WG 5 to address issues of hazards from cold hoses – Tests? Warnings?
 - Adding short-cycle test for extreme temperature changes/decreases and simultaneous pressure increases.
 - WG 5 added similar test – need to coordinate
- Requesting access to ISO/TC 45/ SC 1 DIS 6803: 2015(E) and published ISO 16964 - 2015 standard as they test hose assemblies

Schedule for standardization of ISO/TC197 WG22 (ISO19880-5)

December 2, 2015

Year 2014	2015	2016		
<p>1st meeting</p> <p>1 Dec.</p> 	<p>WD (circulation) (Feb-Mar)</p>  - - ->  <p>2nd meeting (June 12) Washington, DC USA</p>  <p>3rd meeting (Date Dec 2, 2015) Plenary meeting</p>  <p>Torrance, CA USA</p>	<p>WD 2 (circulation) 2 months</p>  - - ->  <p>(Jan-Feb)</p>	<p>CD (circulation) 3 months</p>  - - ->  <p>(May- July)</p> <p>4th meeting (April) (TBD)</p>	<p>DIS (circulation) 5 months</p>  - - ->  <p>(Aug-Dec)</p> <p>5th meeting (June/July) (TBD)</p> <p>IS issue (Dec.)</p> 

WG 23: Fittings - Progress Report













- Meetings held June 8 and December 2, 2015.
- CSA seed document.
- Coordination key with WG 20, WG 24
- Issues
 - Use of CHMC1 – intended for all WGs?
 - Normative References – suitable international references – let review process sort it out.
 - Hydrostatic Burst rating - harmonize with WG 22 hoses (right now both documents say 4X, however there is no consideration for impact of different sizes.
 - Cycle frequency - CSA CHMC1 specifies a frequency of not more than 1 Hz for low-cycle fatigue and up to 20Hz for high-cycle fatigue.

Schedule for standardization of ISO/TC197 WG23 (ISO19880-6)

Dec 2, 2015

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December 2, 2015

Year 2014	2015	2016
<p>1st meeting</p> <p>1 Dec.</p> 	<p>WD (circulation) (Feb-Mar)</p>    <p>2nd meeting (June 12) Washington, DC USA</p>  <p>3rd meeting (Date Dec 2, 2015) Plenary meeting</p>  <p>Torrance, CA USA</p>	<p>WD 2 (circulation) 2 months</p>   <p>(Jan-Feb)</p> <p>CD (circulation) 3 months</p>   <p>(May- July)</p> <p>4th meeting (April) (TBD)</p> <p>DIS (circulation) 5 months</p>   <p>(Aug-Dec)</p> <p>5th meeting (June/July) (TBD)</p> <p>IS issue (Dec.)</p> 