



ISO/TC 197
ISO/TC 197 - Hydrogen technologies
Email of secretary: sylvie.gingras@bnq.qc.ca
Secretariat: SCC

N456 - 2009 WG 11 report

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WG 11 Report in preparation for the next meeting of ISO/TC 197 on 14 October 2009 in Seoul, Korea			
WG and convener	Identification	Scope	Status update
WG 11 Convener: Randy Dey, Canada	ISO 20100 Gaseous hydrogen — Fuelling stations <i>Hydrogène gazeux — Stations de remplissage</i>	This international standard specifies the <u>design</u> , <u>operation and maintenance</u> characteristics of <u>standalone</u> outdoor public and non-public <u>and indoor warehouse</u> fuelling stations that dispense gaseous hydrogen used as fuel onboard land vehicles of all types. Residential and home applications to fuel land vehicles are excluded from this International Standard. The fuelling station may comprise, as applicable, the following as shown in Figure 1: <ul style="list-style-type: none"> • Delivery of hydrogen by pipeline, trucked in gaseous and/or liquid hydrogen; • On-site hydrogen generators using water electrolysis process or hydrogen generators using fuel processing technologies; • Liquid hydrogen storage, pumping and vaporiz<u>er</u><u>ing systems</u>; • Gaseous hydrogen compression and purification systems; NOTE When the fuelling station comprises an on-site hydrogen generator, a compressor/purifier system is commonly integrated into it. • <u>Gaseous hydrogen buffer storage</u>; • <u>Pre-cooling device</u>; • Gaseous hydrogen dispensers. 	The Technical Specification was published on 1 December 2008. The WG continues its work towards the publication of the international standard. The CD was released for comments as ISO/TC 197 doc. N_433 on 6 October 2009 until 8 January 2010.
WG meeting dates and location since the last plenary meeting on 13 June 2008			
15 June 2008 in Brisbane, Australia			
7 November 2008 in The Hague, Netherlands			
3 July 2009 in Montréal, Canada			
Planned meetings			
Proposed changes in title or scope if any			
The proposed changes to the scope are highlighted in red. Most of them have been included in the CD that is being circulated for comments. The indoor non-public fuelling stations will be added into the DIS version to cover indoor refuelling for forklift applications, which represent an early market.			

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Agreed target dates for the next stage	Proposed revised target dates	Issues to bring to the TC, if any (inadequate membership representation, technical directions, etc)
CD: 2008-12 DIS: 2009-12 FDIS: 2010-12 IS: 2011-06	DIS: 2010-11 FDIS: 2011-11 IS: 2012-05 (48 month schedule)	The work is taking longer than expected. Many provisions of the document represent a technical challenge, especially the safety distances, the hazardous locations as well as the dispensing system.