



ISO/TC 197
Hydrogen technologies

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Plenary - WG 24 Report 2017-12

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Background: Here is the WG 24 report that was presented at ISO/TC 197 plenary meeting in China 2017-12.

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



ISO TC 197, WG 24

Gaseous Hydrogen - Fueling Stations – Part 1: General Requirements

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ISO TC 197 - Foshan, China - 7th Dec 2017



Status update WG 24

- Progress report:
 - ISO TC 197 WG24: 2017 activity
 - Publication of ISO TS 19880-1
 - Development of ISO 19880-1
 - Proposal for development of ISO 19880-7
 - Interaction with other working groups



ISO TC 197 WG24: 2016 / 2017 activity

- ISO/TS 19880-1: 2016 published 31 July 2016
- April 2016: Release of ISO CD 19880-1 for ballot
- April 2017: Release of ISO CD 19880-1.2 for ballot
- WG 24 meetings:
 - 30 November – 02 December 2016: Amsterdam, Netherlands (Shell)
 - 13 - 16 June 2017: Seoul, Korea (Hyundai)
 - 18 - 21 September 2017: Hartford, Connecticut, USA (DOE)
(in conjunction with ISO TC 197 WG19)
 - 05 December 2017: Foshan, China (CNIS)



Publication of ISO TS 19880-1

TECHNICAL
SPECIFICATION

ISO/TS
19880-1

First edition
2016-07-01

- ISO TS 19880-1 passed ballot for publication
(Vote results: ISO TC 197 N706)
- Published 01/07/2016 as ISO/TS 19880-1
(Press release: ISO TC 197 N767 & ISO TC 197 N768)
- ISO/TS 20100 withdrawn
- ISO TS 19880-1 now referenced in some national regulations in Europe, for instance France

**Gaseous hydrogen — Fuelling
stations —**

**Part 1:
General requirements**

*Carburant d'hydrogène gazeux — Stations-service —
Partie 1: Exigences générales*



Reference number
ISO/TS 19880-1:2016(E)

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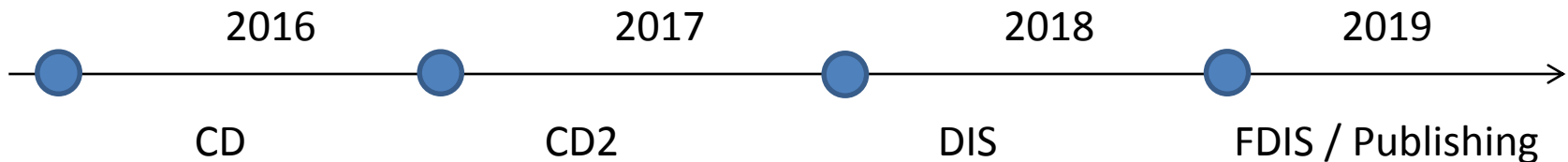
Development of ISO 19880-1

- ISO CD 19880-1 passed ballot in June 2016
(Vote results: ISO TC 197 N794)
- However 2 negative votes
⇒ CD2 ballot
- ISO CD 19880-1.2 (CD2) passed ballot in June 2017
(Vote results: ISO TC 197 N854)
- 0 negative votes ⇒ DIS ballot
- ISO DIS 19880-1 expected to be circulated for ballot Q1 2018





ISO 19880-1: Development Timeline



- **December 2017: WG24 meeting:**
 - 05 Dec 2017: Foshan, China
- **Jan 2018: Translation of ISO DIS 19880-1 (8 weeks)**
 - To confirm last week of February if this has been met
- **March 2018: Release of ISO DIS 19880-1 for Ballot (12 weeks)**
 - Target: 18 Jun 2018: Comments received from mirror committees
- **WG24 meetings to review DIS ballot results:**
 - Europe, 25-29 June 2018: (country / venue TBC)
(To be cancelled if translation process deadline is missed)
 - Sept 2018: Follow-up meeting on DIS comments (country / venue TBC)
- **2018/2019: FDIS to be released for ballot / IS to be submitted for publication**



Refuelling protocols

- Proposal for development of ISO 19880-7 in ISO TC 197 plenary 2016
- Discussion in WG24 meeting June 2017 (Seoul) led by Paul Karzel (Shell) & Steve Mathison (Honda)
 - There isn't significant value at this point in time for the current generation of vehicle CHSSs
- Proposal to postpone until assumptions on next generation of vehicle CHSS can be clarified



SURFACE VEHICLE STANDARD	J2601	JUL 2014
	Issued	2010-03
	Revised	2014-07
Superseding J2601 MAR2010		
Fueling Protocols for Light Duty Gaseous Hydrogen Surface Vehicles		

RATIONALE

SAE J2601 has been updated from the original Technical Information Report (TIR) released in 2010 with technical revisions and clarifications. The updated content is based on improved fueling simulation models and has been validated through real world testing of light duty fuel cell vehicles at hydrogen stations, along with controlled lab testing. With robust correlation between these new simulations and tests, SAE J2601 is now being released as a standard for hydrogen fueling worldwide.

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SAE values your input. To provide feedback on this Technical Report, please visit http://www.sae.org/technicalstandards/J2601_201407





Issues relevant to other WGs

Issues raised at 2016 plenary:

- Dispenser component pressure ratings (138% vs 125%) – WG05, WG19, WG20, WG22
 - Task force to ensure harmony between dispenser related component standards
 - Addressed within other TC 197 drafts
- Equipment designed to EC79/2009 may require other measures to be applied to European dispensers
 - Dispenser PSV set at 138% sufficiently protects a vehicle covered by ISO TC 197 documents in WG05, WG18, (also SAE & GTR#13)
 - ISO TC 22, SC41 – standards not considered as intended for hydrogen vehicles (although stated in title)
- Scope – Duplication / conflicting information
 - how much of the component information is included in the general requirements of ISO 19880-1,
 - how much is left to the component standards (prior to publication of these documents) – WG19, WG20, WG21, WG22
 - Minimal overlap with WG20 and WG22 (WG21 suspended)
 - Issues of duplication of ISO 19880-2 to be left until next version of ISO 19880-1