



ISO/TC 197
Hydrogen technologies

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Item 7.3 WG 24 Plenary 2018 - report

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Background: Please find attached the presentation made for WG 24 during the Vancouver 2018 plenary meeting.
Agenda is N 1035.

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



ISO TC 197, WG 24

Gaseous Hydrogen - Fueling Stations – Part 1: General Requirements

Jay Keller, ZCES Inc

Guy de Réals, Air Liquide

Glenn Scheffler, GWS Solutions of Tolland LLC

Nick Hart, ITM Power

ISO TC 197 - Vancouver, Canada - 6th Dec 2018



Status update WG 24

- Progress report:
 - ISO TC 197 WG24: 2018 activity
 - Development of ISO 19880-1
 - Interaction with other groups
 - Next steps



ISO TC 197 WG24: 2018 activity

- Feb 2018: Release of ISO DIS 19880-1 for ballot
- Oct 2018: Release of post DIS ballot draft (version 9) for CIB
- WG 24 meetings:
 - 10 - 12 July 2018: Hamburg, Germany (Shell)
 - 03 - 04 December 2018: Vancouver, Canada (CSA)



Development of ISO 19880-1

- 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 passed ballot in June 2018
(Vote results: ISO TC 197 N1000)
- 0 negative votes ⇒ FDIS ballot
- ISO FDIS 19880-1 expected to be circulated for ballot Q1 2019

DRAFT INTERNATIONAL STANDARD
ISO/DIS 19880-1

ISO/TC 197 Secretariat: SCC
Voting begins on: Voting terminates on:
2018-02-19 2018-05-14

Gaseous hydrogen — Fuelling stations —
Part 1:
General requirements

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

ICS: 43.060.40; 71.100.20


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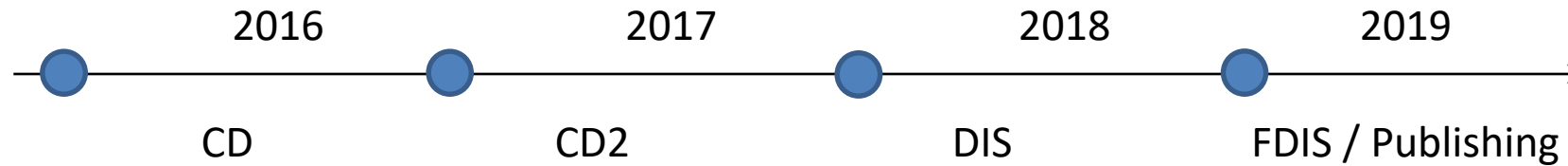
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Reference number
ISO/DIS 19880-1:2018(E)

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ISO 19880-1: Development Timeline



- **December 2018: WG24 meeting:**
 - **03 & 04 Dec 2018: Vancouver, Canada**
- **Jan 2019: Submittal of ISO FDIS 19880-1 (5 months)**
- **Q2 2019: Release of ISO FDIS 19880-1 for Ballot (8 weeks)**
 - **Comments received from mirror committees**
- **ISO secretariat to address editorial comments**
- **2019: IS to be submitted for publication**



Issues relevant to other WGs

Issues raised at 2017 plenary:

- Interoperability issues between ISO 19880-1 dispenser and vehicles:
 - Dispenser PSV set at 138% sufficiently protects a vehicle covered by ISO TC 197 documents in WG05, WG18, (also SAE & GTR#13)
 - EC79/2009 due to be withdrawn and replaced by a regulation more aligned with the GTR#13
 - ISO TC 22, SC41 – standards written intended for hydrogen ICE vehicles – discussed further 05/12/2018.
 - Action to consider ISO TC 197 approach to take in small group (Andrei, Glenn, Spencer, Nick)
- Scope – Duplication / conflicting information
 - how much of the component information is included in the general requirements of ISO 19880-1 and issues of duplication with ISO 19880-2 through ISO 19880-6 to be left until next version of ISO 19880-1

New issues for consideration:

- Fuelling protocols – development of any future fuelling protocols
 - How to ensure backward compatibility, if necessary



Future streamlining of ISO 19880-1

Reduction of future version of ISO 19880-1:

- through removal of Annexes into stand-alone documents on ISO maintenance portal or via NWIP into potential stand-alone documents (either Standard/TS/TR) :
 - Annex C: Hydrogen dispensing and examples of fuelling and communication protocols, and corresponding verification testing
 - Annex J: Hydrogen Station Testing Apparatus (HSTA)
 - Annex K: Sampling Procedures and Hardware for Hydrogen Fuel Quality Analysis
- through removal of text from the body of ISO 19880-1 via NWIP into potential stand-alone documents (either Standard/TS/TR)
 - General document to cover hydrogen usage in enclosures / confined spaces? (removal from ISO 19880-1 and cross reference, also provides shared benefit for standards such as electrolyser, and potentially dispenser and even fuel cells?)

Gap(s) in current ISO 19880-1 / other standards:

- filter definition (method of measuring efficiency)?