



ISO/TC 197  
Hydrogen technologies

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**Plenary - WG 28 Report 2017-12**

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Background: Here is the WG 28 report that was presented at the ISO/TC 197 plenary in China 2017-12.

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



ISO/TC 197/WG 28  
Progress Report  
H<sub>2</sub> Quality Control

December 7, 2017

Hidenori TOMIOKA, JISC  
WG28 Convener



# Clarification of WG responsibilities

## Trilateral structure of H2 Quality for FCV

- ✓ **WG 27: Threshold Specification, discussed in ISO14687 Grade D.**

WG27 is revising ISO14687 and have got a tentative consensus on specifications for FCV at the WG27 in Seoul, Korea in early June this year and **CD2 was Approved without negative vote.**

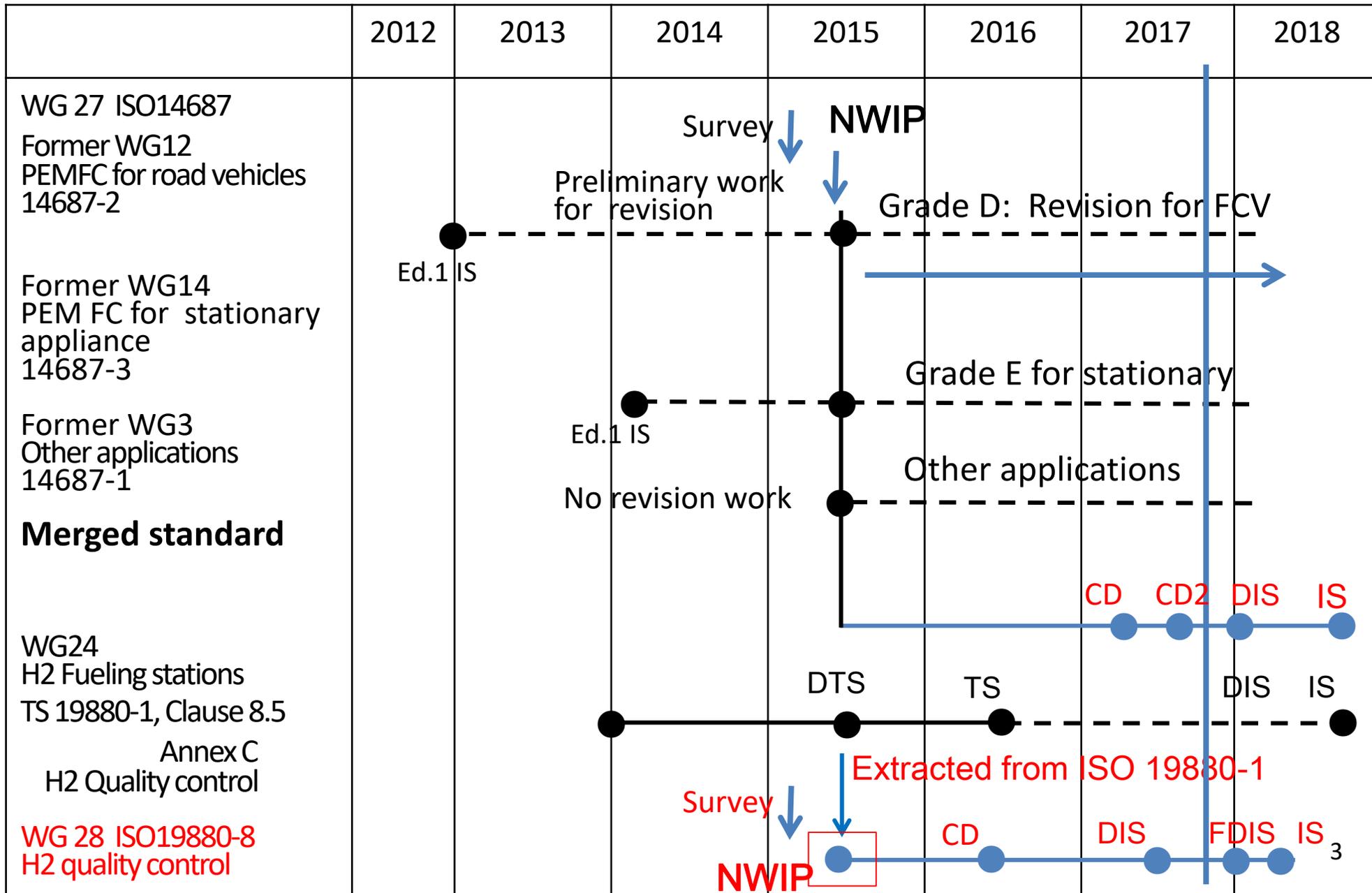
- ✓ **WG 28: Hydrogen Quality Control, discussed in ISO19880-8.**

WG28 has posted DIS to ISO CS. DIS has been circulated today for 12 weeks. **DIS was approved without negative vote.**

- ✓ **ISO/TC 158/JWG 7:**

Analytical methods for each constituent for FCV are discussed. **CD comments were reviewed to be ready for DIS vote.**

# Schedule for developing H2 quality standards





## **ISO19880-8: Gaseous Hydrogen Fueling Station - Hydrogen Quality Control**

- **ISO19880-8 guides the ways of quality control for whole supply chain of the hydrogen for the FCV application.**
- **Two approaches for the quality control in ISO19880-8;**
  - **A prescriptive methodology to guide the quality control of the hydrogen production and supply of the established processes.**
  - **A risk assessment method to guide the appropriate quality control manner for the production and whole supply chain to meet the specifications.**



# The status of ISO/TC 197/WG 28

**ISO/TC 197/WG 28: Hydrogen quality control**

**initiated on October 15, 2015**

**Convener: Hidenori TOMIOKA: JISC (Japan)**

**Secretary: Spencer Quong: ANSI (USA)**

**ISO/DIS 19880-8: (40:60) (2017-09-12)**

**Gaseous hydrogen — Fueling stations — Part 8: Hydrogen quality control**

**Participation: CA, DE, FR, GB, JP, KR, NL, NO, US**

**The scope of ISO 19880-8:**

**This International standard specifies the protocol for ensuring the quality of the gaseous hydrogen quality at hydrogen distribution bases and hydrogen fuelling stations for PEM fuel cells for road vehicles.**



# The Milestone for ISO 19880-8

## Target dates and items to be done at the each meeting

**2015-10-15: New project registered**

**2015-10-29: Adhoc in Tokyo, Japan**

***Consensus on the schedule and WD to be registered***

**2015-12-02: in Torrance CA, USA**

***Review the schedule and action plan***

**2016-02-22, 23: in Fukuoka, Japan (1.5 days)**

***Finished the preparation for CD to be registered***

**2016-03-22: CD circulation started for 2 mon.**

**2016-04-18, 19: in CA, USA (ARB)**

***Review the CD document. Discussed Risk Assessment.***

**2016-05-22: CD circulation closed**

**7: Yes, 7: Yes with comments, No negative vote**

**6: Abstain**



# The Milestone for ISO 19880-8

## Target dates and items to be done at the each meeting

***2016-06-27, 28: in Munich, Germany***  
***Comment review of the CD,***  
***Finalizing the DIS document.***

***2016-10***

***Circulate the pre-DIS reflected the discussion in WG28 in Munich***

***2016-11***

***Compile the comments on pre-DIS (62 comments).***

***2016-12-08***

***Timeframe was changed from 24 months the short timeframe to 36 months normal timeframe.***

***Still keeping publication target date in 2017.***



# The Milestone for ISO 19880-8

## Target dates and items to be done at the each meeting

**2017-06-20**

*DIS voting started for 12 weeks after 8 weeks Translation, +4 weeks Formatting.*

**2017-09-12**

DIS voting closed. Results: APPROVED without negative vote

**2017-11-16**

WG28 meeting (CA, USA) for comments review on the DIS voting.  
Fix the FDIS draft.

**2018-01:** ISO/FDIS 19880-8 to be registered.

**2018-05?:** ISO19880-8 to be published