



ISO/TC 197
Hydrogen technologies

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Plenary - TC 158-JWG 7 Report 2017-12

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Background: Here is the TC 158/JWG 7 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 158,TC197 JWG 7

report of activity

(TC 197 plenary meeting December 7th 2017)

Martine Carré, France

Convenor JWG 7

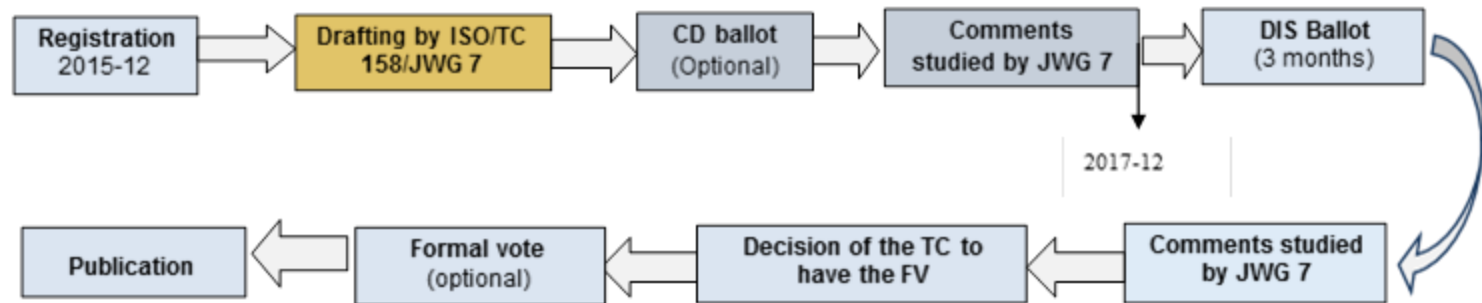


Objectives of JWG7

- Develop a standard for validation of analytical methods to be used for assuring the quality of H₂ according to published ISO 14687-2
- **Title of ISO 21087**
 - Hydrogen fuel -- Analytical methods -- Proton exchange membrane (PEM) fuel cell applications for road vehicles
- Work in coordination with WG 28 , WG 24 and WG 27 (for following the revision of ISO 14687)



Timing for ISO 21087



CD : 2017 – 08

DIS: 2017-12

IS publication: 2018 - 12



Report for 2017

- **Three meetings have been held during the reporting period.**
- 1) **Meeting on 13th and 14th February 2017 of Ad-hoc group at *Air Liquide head-office in Paris***
 - The objective of this meeting was to write a CD draft for presenting to the WG group meeting in May.
 - The members are:
 - Thor Aarhaug (Norway)
 - Arul Murugan (UK)
 - Thomas Bacquart (UK)
 - Janneke van Wijk (ND)
 - Martine Carré (FR)
 - First draft was achieved in April 2017
 - The requirements for the analytical methods validation were established for each key criteria in order to obtain confidence in the measurement results
 - The list of published analytical methods for impurities analysis in hydrogen was done
 - Recommendation for sampling were done in order to keep the integrity of the sample.



Report for 2017 (2)

2) **WG Meeting on 29th of May in K-Hotel, Seoul, South Korea**

- The main objective was to discuss the CD draft and decide if the document can be sent for CD ballot:
 - The document was amended following the comments of the WG members during the meeting
 - The CD ballot was launched beginning of August 2017 (Within TC 158 only)
 - The CD was sent to TC 197 secretary and to the conveners of WG27 and WG28 for comments



Report for 2017 (3)

➤ The results of the CD ballot (Within TC 158 only):

Answers to Q.1: "Do you approve the circulation of the draft as a DIS?"

7 x	Approval	China (SAC) Finland (SFS) France (AFNOR) Greece (NQIS ELOT) Korea, Republic of (KATS) Russian Federation (GOST R) United Kingdom (BSI)
2 x	Approval with comments	Netherlands (NEN) Ukraine (DSTU)
1 x	Disapproval	Germany (DIN)
3 x	Abstention	Czech Republic (UNMZ) Spain (UNE) Sweden (SIS)

➤ Comments were received from TC 197 members



Report for 2017 (4)

3) On 13th November 2017 the WG had its fifth meeting in Torrance, California, US.

➤ **The target of this second meeting was to prepare the DIS version of the document :**

- Answer to the comments received by TC 158 members during the CD ballot
- Answer to the comments received from TC 197 members
- Discussion about remaining issues:
 - Strong comments from Netherlands about the document and risk to have negative vote of DIS
 - Disapproval from Germany which should be clarified because no **critical** technical reason was given in TC158 CD ballot.
 - Comment about the title of the document which is not aligned with all documents in TC 158: Gas analysis must be added to the title
Gas Analysis -- Analytical methods for hydrogen fuel -- Proton exchange membrane (PEM) fuel cell applications for road vehicles

Next steps:

- Discussion with Netherlands , Germany and Chairman of TC158
- Write the DIS version at the latest for January 2018
- Next meeting to be defined according to the DIS voting period (Q3 2018)