



ISO/TC 197
Hydrogen technologies

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The liaison report from CEN TC 268

Document type: Other committee document

Date of document: 2018-12-06

Expected action: INFO

Background: Here is the liaison report from the CEN TC 268.

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



European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

« Hydrogen technologies »

ISO/TC 197

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Report on activities of CEN/TC 268 “Cryogenic vessels”

COMMENTARIES

To be considered during the next meeting of ISO/TC 197



1 Chairmanship, Scope and Meetings

Chairman and Secretary

Chairman: Hervé Barthélémy (Air Liquide)

Secretary: Laurie Jardel (AFNOR)

Scope

Standardization in the field of insulated vessels (vacuum or non-vacuum) for the storage and the transport of refrigerated liquefied gases, as defined in Class 2 of “Recommendations on the Transport of dangerous Goods – Model regulation”, in particular concerning the design of the vessels and their safety accessories, gas/materials compatibility, insulation performance, the operational requirements of the equipment and accessories. The one-off preparation of standards for hydrogen technologies strictly meeting the European mandate on the draft Directive deployment of alternative fuels infrastructure.

Last meeting

The last plenary meeting of CEN/TC 268 took place in Saint Denis (France) on November 17th, 2017.

The next plenary meeting of CEN/TC 268 will probably take place in Saint Denis (France) during the week of June 3rd, 2019 in coordination with ISO/TC 220 plenary meeting.

2 Structure

Working Groups

-WG 1 “Design”

-WG 2 “Compatibility, insulation and accessories”

-WG 3 “Operational requirements”

-WG 4 “Fundamental requirements” – During the plenary meeting of 2017-17-11, it was decided to disband WG 4 and to allocate the standards developed by WG 4 to WG 1

-WG 5 “Specific hydrogen technologies applications”

-WG 6 “Specific helium technologies applications”

Internal liaisons

-CEN/TC 54 “Unfired pressure vessels”

-CEN/TC 69 “Industrial valves”

-CEN/TC 282 “Installations and equipment for LNG”

-CEN/TC 342 “Metal hoses, hose assemblies, bellows and expansion joints”

External liaisons

-European Industrial Gases Association (EIGA)

-ISO/TC 220 “Cryogenic vessels”

-ISO/TC 197 “Hydrogen technologies”

3 Work programme/Items of Interest

Items under study:

See also WI under Vienna Agreement in the ISO/TC 220 Liaison report.

-FprEN 17127 “Outdoor hydrogen refueling points dispensing gaseous hydrogen and incorporating filling protocols”

The formal vote ended in April 2018 and the draft was approved. The standard is expected to be published in November 2018.

CEN/TC 268/WG 5 recommended during its last meeting to open the revision of EN 17127 because some points still need to be clarified such as:

- Consideration of the last version of ISO 19880-1 “Gaseous hydrogen – Fuelling station – Part 1: General requirements”
- Pressure limits, temperature limits

-FprEN 17124 “Hydrogen fuel – Product specification and quality assurance – Proton exchange membrane (PEM) fuel cell applications for road vehicles”

The formal vote ended in April 2018 and the draft was approved. The standard is expected to be published in November 2018.

EN 17124 is based on:

- ISO 19880-8 “Gaseous hydrogen – Fuelling stations – Part 8: Fuel quality control”, under publication.
- ISO 14684 “Hydrogen fuel quality – Product specification”

CEN/TC 268/WG 5 recommended during its last meeting to open the revision of EN 17127. This revision will include the preparation of an Annex presenting an example of risk assessment, the clarification in the main text of the legal requirements and the consideration of the last version of ISO 19880-8.

-FprEN ISO 17268 “Gaseous hydrogen land vehicle refueling connection devices” (VA/ISO lead)

The DIS ballot ended in September 2017 and the draft was approved.

-WI “Helium cryostats - Protection against excessive pressure” – The NWIP was approved in October 2018.

4 Comments

CEN/TC 268 has prepared standards applying to liquid hydrogen (especially in WG 1, 2, 3).

A closer collaboration will probably be needed if the liquid hydrogen technologies are developed for the refueling of hydrogen stations, considering in particular, the progress made with PRESLHY.