



ISO/TC 197
Hydrogen technologies

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TAB 19884 NWIP comments

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Background: Please find attached the comments from the Technical Advisory Board regarding the WI 19884 proposed by ANSI.
A CIB on this Proposal will be launched imminently.

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



TECHNICAL ADVISORY BOARD (TAB)

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TAB Recommendation: NWIP from USA on WI 19884 Gaseous hydrogen – Cylinders and tubes for stationary storage”.

Upon review and discussion of the above NWIP from USA (in collaboration with Japan), ISO/TC 197 Technical Advisory Board (TAB) is of the opinion that the considered NWIP meets the necessary market needs requirements, is in the interest of global stakeholders at large and thus can be approved by the P-members. TAB also is of the opinion that the proposed leadership for this NWIP, Mr. John Eihusen, USA and Prof. Nobuhiro Yoshikawa, Japan, have sufficient qualifications and experience to serve as the convenor and project leader respectively of a renewed WG 15 to restart WI 19884 with the focus on pressure vessels.

TAB also acknowledges the good spirit of cooperation and the productive discussion with the NWIP proponents, which resulted in improved submission documents that addressed all TAB essential comments during the initial review.

Rationale

- This standard is required to harmonize the requirements for stationary hydrogen storage worldwide. It will complement the standard that already exists for the on-board storage of compressed hydrogen as a vehicle fuel.
- The standard is required for the safe global development of the hydrogen industry, since there is very limited experience worldwide with the use of composite-reinforced designs in this application, and with the high storage pressures involved with compressed hydrogen used in vehicular service.
- The proposed scope now covers all pressure vessels regardless of their type and construction. This standard will strive to define performance-based requirements for the ground storage applications in a technology-agnostic manner.

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NWIP on Cylinders and tubes for stationary storage

- At the same time, it will define requirements for specific pressure vessel designs and their manufacture as well as provide examples for application of performance-based requirements on new or alternative pressure vessel designs.
- A list of relevant documents in the NWIP now covers the broad spectrum of national RCS that cover successful deployment all types of pressure vessels globally.
- Liaison with ISO TC 58/SC 3 (Gas cylinders) will be an essential component in developing this standard.

Remarks

TAB members noted that considering the focus of the future standard on pressure vessels, it is critical that the renewed WG15 has sufficient and balanced expertise on all types of pressure vessels. Thus, the WG15 leadership may wish to consider setting up Task Groups to address specific requirements and nuances for each pressure vessel type.

TAB also recommends that P-Members name their experts to WG15 at the same time as they submit their vote.

Sent out by: J. Lafontaine