



Form 4: New Work Item Proposal

Circulation date: 2020-04-03	Reference number: ISO/PWI 19884 (to be given by Central Secretariat)
Closing date for voting: 2020-06-26	ISO/TC 197
Proposer (e.g. ISO member body or A liaison organization) ANSI	N 1164
Secretariat SCC	

A proposal for a new work item within the scope of an existing committee shall be submitted to the secretariat of that committee with a copy to the Central Secretariat and, in the case of a subcommittee, a copy to the secretariat of the parent technical committee. Proposals not within the scope of an existing committee shall be submitted to the secretariat of the ISO Technical Management Board.

The proposer of a new work item may be a member body of ISO, the secretariat itself, another technical committee or subcommittee, an organization in liaison, the Technical Management Board or one of the advisory groups, or the Secretary-General.

The proposal will be circulated to the P-members of the technical committee or subcommittee for voting, and to the O-members for information.

- The proposer has considered the guidance given in the Annex C during the preparation of the NWIP.

Resource availability

- There are resources available to allow the development of the project to start immediately after project approval (e.g. project leader, related WG or committee work programme)

Note: If resources are not available, it is recommended that the project is first registered as a preliminary work item (a Form 4 is not required for this) and when the development can start, Form 4 should be completed to initiate the NP ballot.

Proposal (to be completed by the proposer)

<p>Title of the proposed deliverable.</p> <p>English title:</p> <p>Gaseous hydrogen -- Cylinders and tubes for stationary storage</p> <p>French title:</p> <p>Hydrogène gazeux -- Bouteilles et tubes pour stockage stationnaire</p> <p><i>(In the case of an amendment, revision or a new part of an existing document, show the reference number and current title)</i></p>
<p>Scope of the proposed deliverable.</p> <p>This document specifies the requirements for the design, manufacture and testing of pressure vessels for the stationary storage of gaseous hydrogen of up to a maximum water capacity of 15 000 l and a maximum allowable working pressure not exceeding 110 MPa.</p>
<p>Purpose and justification of the proposal*</p> <p>The development of hydrogen as a global energy carrier requires uniform progress in gaseous storage and handling infrastructure. Standardization of the methods to verify and validate the overall safety of the gaseous hydrogen infrastructure will be key to facilitating its market acceptance and integration into the overall global energy stream. The formalization of safety requirements across world markets allows the free flow of common technology and faster integration of hydrogen resulting in lower overall carbon emissions in the global climate goals.</p> <p>This project would be led by a convenor from the U.S. and a project leader from Japan as shown the section of this form for the Proposed Project Leader.</p> <p><i>Consider the following: Is there a verified market need for the proposal? What problem does this standard solve? What value will the document bring to end-users? See Annex C of the ISO/IEC Directives part 1 for more information. See the following guidance on justification statements on ISO Connect:</i></p> <p>https://connect.iso.org/pages/viewpage.action?pageId=27590861</p>
<p>Sustainable Development Goals (SDGs)</p> <p>Goal 6: Clean Water and Sanitation Goal 7: Affordable and Clean Energy Goal 9: Industry, Innovation, and Infrastructure Goal 11: Sustainable Cities and Communities Goal 12: Responsible Consumption and Production Goal 13: Climate Action</p>
<p>Preparatory work (An outline should be included with the proposal)</p> <p><input type="checkbox"/> A draft is attached <input checked="" type="checkbox"/> An outline is attached <input type="checkbox"/> An existing document will serve as the initial basis</p> <p>The proposer or the proposer's organization is prepared to undertake the preparatory work required:</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>

If a draft is attached to this proposal:

Please select from one of the following options (note that if no option is selected, the default will be the first option):

Draft document can be registered at Working Draft stage (WD - stage 20.00)

Draft document can be registered at Committee Draft stage (CD - stage 30.00)

Draft document can be registered at Draft International Standard stage (DIS - stage 40.00)

If the attached document is copyrighted or includes copyrighted content:

The proposer confirms that copyright permission has been granted for ISO to use this content in compliance with the ISO/IEC Directives, Part 1 (see also the Declaration on copyright).

Is this a Management Systems Standard (MSS)?

Yes No

NOTE: if Yes, the NWIP along with the Justification study (see Annex SL of the Consolidated ISO Supplement) must be sent to the MSS Task Force secretariat (tmb@iso.org) for approval before the NWIP ballot can be launched.

Indication of the preferred type or types of deliverable to be developed

International Standard Technical Specification

Publicly Available Specification

Proposed Standard Development Track (SDT)

18 months* 24 months 36 months 48 months

*Projects using SDT 18 are eligible for the 'Direct publication process' offered by ISO /CS which reduces publication processing time by approximately 1 month

Draft project plan (as discussed with committee leadership)

Proposed date for first meeting: [2020-07-22](#)

Dates for key milestones: 1st Working Draft (if any) circulated to experts: [2020-10-23](#)

Committee Draft ballot (if any): [2021-07-23](#)

DIS submission*: [2022-04-22](#)

Publication*: [2023-07-21](#)

*Target Dates on DIS submission and Publication should preferably be set a few weeks ahead of the limit dates (automatically given by the selected SDT).
 For guidance and support on project management; descriptions of the key milestones; and to help you define your project plan and select the appropriate development track, see:
go.iso.org/projectmanagement
 NOTE: The draft project plan is later used to create a detailed project plan, when the project is approved.

Known patented items (see ISO/IEC Directives, Part 1 for important guidance)

Yes No

If "Yes", provide full information as annex

Co-ordination of work: To the best of your knowledge, has this or a similar proposal been submitted to another standards development organization?

Yes No

If “Yes”, please specify which one(s):

A statement from the proposer as to how the proposed work may relate to or impact on existing work, especially existing ISO and IEC deliverables. The proposer should explain how the work differs from apparently similar work, or explain how duplication and conflict will be minimized.

This standard is to follow up on the failure of FDIS 19884 to reach consensus vote. Currently the failed standard is moving forward as a CEN standard.

The proposed plan is to start with FDIS 19884 and the comments that were submitted during failed FDIS ballot. The FDIS comments will be reviewed and discussed. The comments that were submitted during the DIS ballot also needed to be taken into account in order to cover all technical issues. This effort will attempt to resolve comments by improving technical definition of analytical methods, considering regional issues, and limiting scope, where necessary, to achieve consensus.

Consensus positions will be created to define performance-based requirements for the ground storage applications in a technology-agnostic manner. Requirements for specific pressure vessel designs and types will also be defined to provide concrete requirements of verify the design and manufacture of standard pressure vessels as well as provide examples for application of performance-based requirements on new or alternative vessel designs.

A listing of relevant existing documents at the international, regional and national levels

EU PED
 ASME BPVC Section VIII.3 Article KD-10 (USA)
 ASME BPVC Section X
 JPEC-TD 0003
 GB/T26466

Please fill out the relevant parts of the table below to identify relevant affected stakeholder categories and how they will each benefit from or be impacted by the proposed deliverable(s).

	Benefits/impacts	Examples of organizations / companies to be contacted
Industry and commerce large industry	Common application of commercial designs	Infrastructure providers such hydrogen gas manufacturers, dispensing station manufacturers, storage tank manufacturers
Industry and commerce SMEs		
Government		
Consumers		
Labour		
Academic and research bodies		

Standards application businesses		
Non-governmental organizations		
Other (please specify)		
<p>Liaisons:</p> <p>A listing of relevant external international organizations or internal parties (other ISO and/or IEC committees) to be engaged as liaisons in the development of the deliverable(s).</p> <p>ISO/TC 58/SC 3</p>	<p>Joint/parallel work:</p> <p>Possible joint/parallel work with:</p> <p><input type="checkbox"/> IEC (please specify committee ID)</p> <p><input checked="" type="checkbox"/> CEN (please specify committee ID)</p> <p>CEN/TC 23</p> <p><input type="checkbox"/> Other (please specify)</p>	
<p>A listing of relevant countries which are not already P-members of the committee.</p> <p>Note: The committee manager shall distribute this NP to the ISO members of the countries listed above to ask if they wish to participate in this work</p>		
<p>Proposed Project Leader (name and e-mail address)</p> <p>Nobuhiro Yoshikawa yoshi@telu.iis.u-tokyo.ac.jp</p>	<p>Name of the Proposer (include contact information)</p> <p>John Eihusen John.Eihusen@hexagongroup.com</p>	
<p>This proposal will be developed by:</p> <p><input type="checkbox"/> An existing Working Group:</p> <p><input type="checkbox"/> A new Working Group:</p> <p>(Note: establishment of a new WG must be approved by committee resolution)</p> <p><input type="checkbox"/> The TC/SC directly</p> <p><input checked="" type="checkbox"/> To be determined: A Suggestion discussed with the TPM is to reactivate WG15</p>		

Supplementary information relating to the proposal

- This proposal relates to a new ISO document
- This proposal relates to the adoption as an active project of an item currently registered as a Preliminary Work Item
- This proposal relates to the re-establishment of a cancelled project as an active project

Other:

Maintenance agencies (MA) and registration authorities (RA)

- This proposal requires the service of a maintenance agency. If yes, please identify the potential candidate:

- This proposal requires the service of a registration authority. If yes, please identify the potential candidate:

NOTE: Selection and appointment of the MA or RA is subject to the procedure outlined in the ISO/IEC Directives, Annex G and Annex H, and the RA policy in the ISO Supplement, Annex SN.

- Annex(es) are included with this proposal (give details)

Please find attached the following items: [Outline of the document to be produced](#), [CV of the Convenor](#), and [CV of the Project Leader](#)

Additional information/question(s)

[A Suggestion discussed with the TPM is to reactivate WG15.](#)