



N 1177

# Form 6: Result of voting on New Work Item Proposal

Date: 2020-06-03	ISO/TC 197 N 1177
Title of TC/SC concerned: Hydrogen technologies	

To be completed by the secretariat and sent to the ISO Central Secretariat and to all P- and O-members of the TC or SC concerned, with a copy to the TC secretariat in the case of a subcommittee.

**Please attach the results of the NWIP ballot from CIB to this form**

ISO/TC 197	Circulation	Deadline
N 1177	2020-04-03	2020-05-30
<b>Title:</b> <b>English title:</b> Gaseous hydrogen — Cylinders and tubes for stationary storage <b>French title:</b> Hydrogène gazeux — Bouteilles et tubes pour stockage stationnaire		

## Results (the compilation of results is given as an annex)

The following criteria for acceptance have been met:

- Approval by a 2/3 majority of the voting P-members; and
- a commitment to participate actively in the development of the project by at least 4 P-members in committees with 16 or less P-members and at least 5 P-members in committees with 17 or more P-members (rf ISO/IEC Directives, Part 1 clause 2.3.5) and have nominated an expert
- Justification statements have been checked (all negative votes must be accompanied by a statement justifying the decision, or they shall not be counted. See ISO/IEC Directives Part 1, clause 2.3.4)

**In light of results, the proposal is therefore:**

- Approved (all approval criteria met) and the project will be registered:
- as a Working Draft stage (WD – stage 20.00)
  - as a Committee Draft stage (CD – stage 30.00)
  - as a Draft International Standard stage (DIS – stage 40.00) – The submission of the DIS is recommended within 16 weeks of the project registration; a short standard development track should be selected (e.g. SDT 18)
- Disapproved (one or more approval criteria not met)
- (note that if no option is selected, the default will be abandoned)
- The draft will be registered as a preliminary work item ( stage 00.60)
  - Abandoned.

**Proposed project leader:**

Nobuhiro Yoshikawa  
yoshi@telu.iis.u-tokyo.ac.jp

**This proposal will be developed by:**

- An existing Working Group
- A new Working Group : (title: Gaseous hydrogen - Cylinders and tubes for stationary storage)

Note: establishment of a new WG must be approved by committee resolution

- The TC/SC directly
- To be determined

**List of participating experts**

Please see expert list as separate annex.

**Relevant documents**

N1166 - Outline of project  
N1163 - TAB Comments  
JISC Comments registered during the ballot (Will be added to WG documents)  
CIB to register a new WG forthcoming.

**In light of the results, selected 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

\*\* Only for JTC 1

**Draft project plan (as discussed with committee leadership)**

Proposed date for first meeting: 2020-07-22

Dates for key milestones: Circulation of 1st Working Draft (if any) 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](http://go.iso.org/projectmanagement)

NOTE: [ISO/Meetings](#) and [ISO/Projects](#) allow you to register and continuously update the meeting dates and project target dates during the development of the project

<b>Secretariat</b> SCC	<b>Committee Manager</b> Lafontaine, Jonathan Mr	<b>Registration by the ISO Central Secretariat</b> Date: 2020-06-03 Allocated project number: ISO/NP 19884
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Other information, comments, etc. appended

The recommendation is to use the number WG15 for Gaseous hydrogen - Cylinders and tubes for stationary storage.

**Annex - Nominated Experts**

Member Body	Expert
Australia (SA)	Billy Chan
Canada (SCC)	Joe Wong (jjywong@shaw.ca)
China (SAC)	Prof. Jinyang Zheng, Zhejiang University, E-mail:jyzh@zju.edu.cn ]]>
Czech Republic (UNMZ)	Mr. Pavel Kucera, pavel.kucera@cylinders.cz
Japan (JISC)	
Netherlands (NEN)	Stephan Montel stephan.montel@shell.com
Norway (SN)	Mr. Per-Sigurd Heggem, per.heggem@hexagonraufoss.com Mr. Harald Fernandez Cuesta, harald.cuesta@uac.no Mr. Øyvind Hamre, Oyvind.Hamre@uac.no
United Kingdom (BSI)	Nick Hart Daniel Frame Warren Hepples Vladimir Molkov
United States (ANSI)	Nominated as WG convenor: Mr. John Eihusen, Hexagon, john.eihusen@hexagongroup.com, Industry and commerce Nominated as U.S. experts: Mr. Rob Early, Compressed Gas Association, rearly@cganet.

com, Standards application  
Mr. Don Frikken, Becht Engineering Company,  
dfrikken@becht.com, Industry and commerce  
Dr. Norman L Newhouse, Hexagon,  
norman.newhouse@hexagongroup.com, Industry and commerce  
Mr. Mark Richards, U.S. Department of Energy,  
mark.richards@ee.doe.gov, Government  
Mr. Glenn Scheffler, GWS Solutions of Tolland, gwssol@aol.com,  
Industry and commerce

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# Report of voting

## Ballot Information

**Ballot reference** ISO/NP 19884

**Ballot type** NP

**Ballot title**

**Opening date** 2020-04-03

**Closing date** 2020-05-29

**Note** Please note the shortened ballot period of 8 weeks.

## Member responses - Votes by members

Country (Member body)	* Status	1a. Agree to add to work programme							Market Relevance	1b. Stakeholders consultation		2. Relevant documents		3. Comments		4. Participation						
		Yes			No		Abs*	Yes		No	Yes	No	Yes	No								
		20.00	30.00	40.00	PWI: Yes	PWI: No									Yes	No	Yes	No	Yes	No		
Argentina (IRAM)	P	X							X				X				X					
Australia (SA)	P	X								X				X								
Belgium (NBN)	P					X							X				X					
Canada (SCC)	S	X											X									
China (SAC)	P	X									X			X								
Czech Republic (UNIMZ)	P						X						X				X					
Denmark (DS)	P							X					X				X					
Finland (SFS)	P							X					X				X					
France (AFNOR)	P							X					X				X					
Germany (DIN)	P	X									X			X			X					
India (BIS)	P							X					X				X					
Italy (UNI)	P								X				X				X					
Japan (JISC)	P	X									X			X								
Korea, Republic of (KATS)	P	X											X				X					
Netherlands (NEN)	P	X											X				X					
New Zealand (NZSO)	P	X											X				X					
Norway (SN)	P	X											X				X					
Spain (UNE)	P							X					X				X					
Sweden (SIS)	P							X					X				X					
United Kingdom (BSI)	P	X											X				X					
United States (ANSI)	P	X											X				X					
<b>Sub-Total Question 1a</b>		12	0	0	0	0	0	0	2	7	1	19	2	4	17	2	19	9	12			
<b>Totals</b>														12	0	0	0	0	2	7	9	12

\* Status P for P-Member, O for O-Member and S for Secretariat

\* Abs: NC for lack of National Consensus, Exp for lack of Expert Input

## Member responses - Votes not cast (1)

Russian Federation (GOST R)

### Comments from voters

Member	Comment	Date
<b>Argentina (IRAM)</b> Urquiza, Maria Gabriela Ms	<b>Comment to Q.1:</b> <i>We're committed to participate, but we can't nominate experts at this moment due to the present circumstances</i>	2020-05-21
<b>Australia (SA)</b> Faber, Natalie Ms	<b>Comment to Q.5:</b> standards mapping undertaken on requirements	2020-05-29
<b>Canada (SCC)</b> Williams, Ester Ms	<b>Comment to Q.7:</b> Billy Chan <b>Comment to Q.7:</b> Joe Wong ( jyywong@shaw.ca)	2020-05-15
<b>China (SAC)</b> Yang, Yanmei Ms	<b>Comment to Q.5:</b> GB/T 26466 Stationary flat steel ribbon wound vessels for storage of high pressure hydrogen <b>Comment to Q.7:</b> Prof. Jinyang Zheng, Zhejiang University, E-mail:jyzh@zju.edu.cn	2020-05-26
<b>Czech Republic (UNMZ)</b> Kuklova, Lydie Mrs	<b>Comment to Q.7:</b> Mr. Pavel Kucera, pavel.kucera@cylinders.cz	2020-05-29
<b>Germany (DIN)</b> Klaas, Uwe Mr Dipl.-Chemiker	<b>Comment to Q.5:</b> DIN EN 17753, developed by CEN/TC 268 on the basis of ISO/FDIS 19884:2019, is in progress of being published.	2020-05-26
<b>Japan (JISC)</b> UEKI, Shunichi Mr	<b>See linked comment file:</b> <a href="#"><u>ISO NP 19884 JISC.doc</u></a> (access restricted to ballot audience) <b>Comment to Q.5:</b> The following regulations relate to the stationary storage vessels of high pressure hydrogen. However, they are all in Japanese and their English translations are not available. We will provide details of the knowledge concerning these regulations through appropriate experts. a. Ministerial ordinances on high pressure vessels. i) Ordinance No.4 of 1976 by MITI as amended by ordinance No.12 of 2020 by METI. ii) Ordinance No.50 of 1966 by MITI as amended by ordinance No.41 of 2019 by METI. b. Technical standards on high pressure vessels. b.1 Stationary application, Type 1. i) JPECTD0003 (2017) ii) KHKS0220 (2016) b.2 Stationary application, Type 2 i) under development b.3 Stationary application, Type 3 and Type 4. i) KHKS0225 (2019) b.4 Mobile application for fuel cells i) Type 1: JARIS003 (2018) ii) Type 3 and Type 4: JARIS001 (2004) b.5 Mobile application for transport i) Type 3 and Type 4: JPECS0005 (2013)	2020-05-28

Comments from voters		
Member	Comment	Date
<b>Netherlands (NEN) Greeve, E. Mevr.</b>	<p><b>Comment to Q.6:</b> There are already standards that describe pressure vessels in general, like the EN 13445-3 or the ASME BPVC part VIII, div. 3.A new standard should not deviate from these standards in order to prevent contradictions.</p> <p><b>Comment to Q.7:</b> Stephan Montel stephan.montel@shell.com</p>	2020-05-26
<b>Norway (SN) Prehn-Sletten, Ståle Mr</b>	<p><b>Comment to Q.7:</b> Mr. Per-Sigurd Heggem, per.heggem@hexagonraufoss.com Mr. Harald Fernandez Cuesta, harald.cuesta@uac.no Mr. Øyvind Hamre, Oyvind.Hamre@uac.no</p>	2020-05-12
<b>United Kingdom (BSI) Rogers, Michael Mr</b>	<p><b>Comment to Q.7:</b> Nick Hart Daniel Frame Warren Hepples Vladimir Molkov</p>	2020-05-22
<b>United States (ANSI) Team, ANSI ISO</b>	<p>Nominated as WG convenor:</p> <p>Mr. John Eihusen, Hexagon, john.eihusen@hexagongroup.com, Industry and commerce</p> <p>Nominated as U.S. experts:</p> <p>Mr. Rob Early, Compressed Gas Association, rearly@cganet.com, Standards application</p> <p>Mr. Don Frikken, Becht Engineering Company, dfrikken@becht.com, Industry and commerce</p> <p>Dr. Norman L Newhouse, Hexagon, norman.newhouse@hexagongroup.com, Industry and commerce</p> <p>Mr. Mark Richards, U.S. Department of Energy, mark.richards@ee.doe.gov, Government</p> <p>Mr. Glenn Scheffler, GWS Solutions of Tolland, gwssol@aol.com, Industry and commerce</p>	2020-05-22

Comments from commenters		
Commenter	Comment	Date