

**RESULT OF VOTING ON NEW WORK ITEM PROPOSAL**

Date 2013-10-25	ISO/TC 197	N 606
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.

Proposal	ISO/TC 197	N N589	Circulation 2013-07-09	Deadline 2013-09-11
Title (new title if appropriate)				
English title	Gaseous Hydrogen -- Land Vehicle Fuel Tanks			
French title (Optional)	Hydrogène gazeux -- Réservoir de carburant pour véhicules terrestres			

Results (the compilation of results is given as an annex)
The following criteria for acceptance have been met:
<input checked="" type="checkbox"/> Approval by a simple 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

In the light of results, the proposal is therefore:
<input checked="" type="checkbox"/> Approved (all approval criteria met) and the project will be registered:
<input checked="" type="checkbox"/> as new project in the committee's work programme (stage 20.00)
<input type="checkbox"/> as a Working Draft (WD – stage 20.20)
<input type="checkbox"/> as a Committee Draft (CD – stage 30.00)
<input type="checkbox"/> as a Draft International Standard (DIS – stage 40.00)
<input type="checkbox"/> Disapproved (one or more approval criteria not met)
(note that if no option is selected, the default will be abandoned)
<input type="checkbox"/> The draft will be registered as a preliminary work item (stage 00.60)
<input type="checkbox"/> Abandoned.

Proposed project leader :	Livio Gambone, who recently joined CSA, will be the convener of the new WG for this project(livio.gambone@csagroup.org)
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List of participating experts (give details below, or as a separate annex)
Please see expert list as separate annex.

Relevant documents (give details below, or as a separate annex)
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Proposed development track	<input type="checkbox"/> 1 (24 months)	<input checked="" type="checkbox"/> 2 (36 months - default)	<input type="checkbox"/> 3 (48 months)
<i>Note: Selection of a development track will automatically associate default target dates with critical stages. If you envisage that you can advance a project quicker than the default target dates you may indicate your preferred earlier target dates in the field "Target date for submission". Important! Quoting earlier target dates implies a commitment to meeting these dates If you do not want to change the defaults to earlier dates do not put anything in the "Target date for submission" fields.</i>			

Secretariat	Secretary
SCC	Ferrero, Jim Mr.

Registration by the Central Secretariat	
Date	Allocated project number
2013-10-25	ISO/NP 19471

Other information, comments, etc. appended

Sweden submitted the following information after the vote closed.

For Q.1: As the UN global technical regulation (GTR) for hydrogen fuel cell vehicles has just been "adopted" for voting at the UN (i.e. the technical work is complete), and contains performance requirements for CGH2 containers. I propose delaying the launch of this NWIP until the GTR is in force and the legal requirements contained in it are known with certainty.

For Q.2: EU Regulation No 79/2009 & No 406/2010

UN HFCV GTR

For Q.7: Sweden (SIS) expert P Adams (paul.adams@volvo.com)

Annex - Nominated Experts

Member Body	Expert
Argentina (IRAM)	DIEGO GOLDIN - diegogoldin@arnetbiz.com.ar]]>
Brazil (ABNT)	Sergio P. Oliveira
Canada (SCC)	Livio Gambone is the proposed Project Leader for this NWIP. Email: livio.gambone@csagroup.org
Denmark (DS)	Within the next couple of months it will be decided, if any danish expert wishes to participate in the work
France (AFNOR)	We are committed to participating actively in the development of the project, at least by commenting on working drafts. French experts still to be nominated.]]>
Germany (DIN)	to be nominated later
India (BIS)	Dr S S Thipse (E-mail: thipse.edl@araiindia.com)
Japan (JISC)	Japan's experts nominated are as follows; (total 4 persons) Mr. Akihiro IIYAMA email: a-
Norway (SN)	Standards Norway will nominate two Norwegian experts:
United Kingdom (BSI)	Dr Warren Hepples - UK Expert
United States (ANSI)	Jennifer Hamilton, California Fuel Cell Partnership, jhamilton@cafcp.org; Norm Newhouse, Hexagon Lincoln, norman.newhouse@hexagonlincoln.com; Glenn Scheffler, GWS Solutions of Tolland, gwssol@aol.com; Mark Trudgeon, Luxfer Cylinders

Report of voting

Ballot Information

Ballot reference	N589 NWIP Canada
Ballot type	NP
Ballot title	Gaseous hydrogen - Land vehicle fuel tank
Opening date	2013-07-09
Closing date	2013-09-09
Note	

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	Yes	No
		20.00	20.20	30.00	40.00	PWI: Yes	PWI: No										
Argentina (IRAM)	P	X							X	X		X		X	X		
Brazil (ABNT)	P	X							X	X		X		X	X		
Canada (SCC)	S	X							X	X		X		X	X		
Denmark (DS)	P	X							X	X		X		X	X		
France (AFNOR)	P	X							X	X		X	X		X		
Germany (DIN)	P	X							X	X		X		X	X		
India (BIS)	P		X						X	X		X		X	X		
Italy (UNI)	P					X			X	X		X		X	X		
Japan (JISC)	P	X							X	X	X			X	X		
Korea, Republic of (KATS)	P	X							X	X		X		X			X
Netherlands (NEN)	P							X			X	X		X			X
Norway (SN)	P	X							X	X		X		X	X		
Russian Federation (GOST R)	P				X				X		X	X		X			X
Spain (AENOR)	P							X		X		X		X			X
Sweden (SIS)	P						X		X	X		X		X			X
United Kingdom (BSI)	P	X							X	X		X		X	X		
United States (ANSI)	P	X							X	X	X			X	X		
Sub-Total Question 1a		11	1	0	1	1	1	2									
Totals		13				2		2	15	15	2	3	14	1	16	12	5

Member responses - Votes not cast (2)

China (SAC)

Egypt (EOS)

Comments from voters		
Member	Comment	Date
Argentina (IRAM) Santella, Mabel Mrs	<p>Comment to Q.1: The proposed item is considered of utmost importance, in view of the development in the field of Hydrogen powered vehicles. There is no possibility for advancement in the massification of hydrogen vehicles without a globally accepted standard. If no ISO standard is rapidly developed, national standards will begin to be drafted, thus potentially affecting international trade.</p> <p>Comment to Q.7: DIEGO GOLDIN - diegogoldin@arnetbiz.com.ar</p>	2013-09-06
Brazil (ABNT) Rangel, Rose Mrs	<p>Comment to Q.1: This matter is very important to our sector</p> <p>Comment to Q.7: Sergio P. Oliveira spoliveira@inmetro.gov.br</p>	2013-09-06
Canada (SCC) Grant, Ginette Ms.	<p>Comment to Q.1: This NWIP was submitted by Canada.</p> <p>Comment to Q.7: Livio Gambone is the proposed Project Leader for this NWIP. Email: livio.gambone@powertechlabs.com</p>	2013-09-10
Denmark (DS) Damgaard, Peter Mr	<p>Comment to Q.1: The Danish NC supports the NWIP and agrees, that there is an international need for a hydrogen fuel tank standard</p> <p>Comment to Q.7: Within the next couple of months it will be decided, if any danish expert wishes to participate in the work</p>	2013-09-06
France (AFNOR) Solbes, Frédéric M.	<p>See linked comment file: N589 NWIP Canada AFNOR.doc (access restricted to ballot audience)</p> <p>Comment to Q.1: Project is of interest and does meet market requirements.</p> <p>Comment to Q.6: France wishes cylinders that will be used to be made in accordance with transportable cylinders standards.</p> <p>Comment to Q.7: We are committed to participating actively in the development of the project, at least by commenting on working drafts. French experts still to be nominated.</p>	2013-09-09
Germany (DIN) Klaas, Uwe Dipl.-Chemiker	<p>Comment to Q.1: After consideration, Germany supports the NWIP in order to finally get an international standard on the issue.</p> <p>Comment to Q.7: to be nominated later</p>	2013-09-09

Comments from voters		
Member	Comment	Date
India (BIS) Jha, R.K Dr	<p>Comment to Q.1: The NWIP is approved.</p> <p>Comment to Q.7: Dr S S Thipse (E-mail: thipse.edl@araiindia.com)</p>	2013-09-05
Italy (UNI) Angelini, Raffaella Ms	<p>Comment to Q.1: The requirements will be based on drafts which are not in line with current ISO/TC 58 standards for high pressure gas cylinders</p> <p>Comment to Q.7: Mr Agnoletti Alberto alberto.agnoletti@faber-italy.com</p>	2013-09-09
Japan (JISC) Miyashita, Osamu Mr	<p>Comment to Q.1: We (Japan) approve this NWIP.</p> <p>Comment to Q.5: In Japan, we have domestic regulations under; KHK-S0128 and JARI-S001</p> <p>Comment to Q.7: Japan's experts nominated are as follows; (total 4 persons) Mr. Akihiro Iiyama email: a-iiyama@mail.nissan.co.jp Mr. Yoshio FUJIMOTO email: yoshio_fujimoto@mail.toyota.co.jp Mr. Akihiro MORI email: takaaki_mori@samtech.co.jp Mr. Hidenori TOMIOKA email: htomioka@jari.or.jp</p>	2013-09-02
Korea, Republic of (KATS) Lee, Yeon Berm	<p>Comment to Q.1: KATS approves on this NWIP because of its market relevance.</p>	2013-07-11
Norway (SN) Borgos, Kari Synnøve Ms	<p>Comment to Q.1: Even though GTR 13 now is approved, and EC79/406 so far has demonstrated good performance for composite cylinders in passenger car applications, we will welcome an ISO standard on the topic for a broad range of applications like trucks and buses and other types of vehicles (f. ex 2 and 3 wheelers and off-road vehicles). We also see a positive effect of having technical issues related to composite cylinders developed by technical experts from the industry, and thereafter be able to refer to an ISO-standard when technical requirements in Regulations need update or corrections.</p> <p>Comment to Q.7: Standards Norway will nominate two Norwegian experts: Mr Per-Sigurd Heggem, e-mail: per.heggem@hexagonraufoss.com Mr Patrick Breuer, e-mail: Patrick.Breuer@hexagonlincoln.com</p>	2013-09-06
Russian Federation (GOST R) Ramenskiy, Alexandr Mr.	<p>Comment to Q.1: No coments</p> <p>Comment to Q.5: No coments</p>	2013-07-31

Comments from voters		
Member	Comment	Date
Sweden (SIS) Nsamba, Brian Mr	Comment to Q.1: No interest from swedish experts.	2013-09-03
United Kingdom (BSI) Duncombe, Charlie Mr.	<p>Comment to Q.1: The purpose of the proposed ISO standard is to promote the implementation of hydrogen powered land vehicles through the creation of harmonized component-level requirements for hydrogen fuel tanks. The requirements will be based on the draft CSA HGV 2 standard approach which specifies the component-level performance requirements for the material, design, manufacture, marking and testing of hydrogen fuel tanks. The standard will be harmonized with the fuel system-level requirements specified in the draft Global Technical Regulation (GTR) being developed by UN WP.29. Where possible, the standard will also harmonize with the fuel system-level requirements specified in the SAE J2579 standard, recognizing that where technical differences exist between the SAE document and the UN GTR document, the ISO standard will align with the UN GTR.</p> <p>The scope of the ISO standard will be limited to fuel tanks containing fuel cell grade hydrogen per ISO 14687-2 for fuel cell land vehicles, and Grade A or better hydrogen per ISO 14687-1 for internal combustion engine land vehicles. The ISO standard will also contain requirements for hydrogen fuel tanks acceptable for use on-board light duty vehicles, heavy duty vehicles and industrial powered trucks such as forklifts and other material handling vehicles.</p> <p>The development of this ISO standard is critical because there is an international need for a hydrogen fuel tank standard that encompasses the entirety of the defined scope. For example, the UN GTR scope is restricted to light duty vehicles (<4 536 kg), CSA HGV 2 and SAE J2579 are both restricted to on-road vehicles, and none of these documents address industrial powered trucks.</p> <p>Comment to Q.7: Dr Warren Hepples - UK Expert Mr C Duncombe - Observer</p>	2013-08-30
United States (ANSI) Team, ANSI ISO	<p>Comment to Q.1: There is need for an International Standard on fuel containers for hydrogen vehicles that can be used for passenger vehicles, and also for heavy duty trucks, busses, and other vehicles.</p> <p>Comment to Q.5: CSA HGV2, SAE J2579, HPIT1</p> <p>Comment to Q.7: Jennifer Hamilton, California Fuel Cell Partnership, jhamilton@cafcp.org; Norm Newhouse, Hexagon Lincoln, norman.newhouse@hexagonlincoln.com; Glenn Scheffler, GWS Solutions of Tolland, gwssol@aol.com; Mark Trudgeon, Luxfer Cylinders USA, mark.trudgeon@luxfer.net</p>	2013-09-06

Comments from commenters		
Member	Comment	Date
Austria (ASI) Lesigang, Kurt Mr	<p>1) approve</p> <p>2) Draft document will be registered as new project in the committee's work programme (stage 20.00)</p>	2013-09-06

Comments from commenters		
Member	Comment	Date
Austria (ASI) Lesigang, Kurt Mr	4 1b.) Yes 5 2.) No 6 3.) No 7) Mr. Fischer (Worthington Cylinders GmbH) walter.fischer@wthg.at	
Jamaica (BSJ) Williams, Ester Ms.	Jamaica abstains.	2013-09-06