



Form 21: Result of Systematic Review of ISO deliverable

Date: 2016-12-13	ISO/TC 197 N 835
Title of TC/SC concerned: Hydrogen technologies	

This document is to be completed by the committee secretariat and circulated within 6 months of the termination of the review period to (1) all P- and O-members, organizations and committees in liaison, (2) the ISO Central Secretariat, (3) the TC secretariat in the case of review in an SC.

Review: Start date: 2016-04-15 End date: 2016-09-17
Reference number and title of ISO deliverable: ISO/TS 15869:2009 English title: Gaseous hydrogen and hydrogen blends -- Land vehicle fuel tanks French title: Hydrogène gazeux et mélanges d'hydrogène gazeux -- Réservoirs de carburant pour véhicules terrestres

Results (the compilation of results is given as an annex)
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The following criteria have been met: 1. A simple majority of voting P-members has proposed the following action: a <input type="checkbox"/> withdrawal b <input type="checkbox"/> revision/amendment c <input checked="" type="checkbox"/> confirmation 2. <input checked="" type="checkbox"/> It has been adopted/is intended to be adopted (with or without change) or is used by at least 5 countries

In the light of results, the following action is proposed and will be considered the committee decision unless objections are received within one month of circulation of this form:

Criteria 1 a met or criteria 2 not met:

withdrawal

Criteria 1 b & 2 met – see Note:

revision **amendment** **minor revision** (to be registered as a FDIS – stage 50.00)

Note: The choice between revision and amendment is essentially based on an assessment of whether or not the changes are limited (amendment) or if they require the redevelopment of the whole document (revision). To be determined by the committee secretariat. A minor revision may be selected if the proposed changes do not impact the technical content.

In the case of a Revision or an Amendment, the project is to be registered as:

A Working draft (WD – stage 20.20)

A Committee draft (CD – stage 30.00)

A Draft International Standard (DIS – stage 40.00)

A call for experts must be launched for revisions or amendments. However there is no minimum number of active P-members required.

The scope of the document is confirmed

Note: an expansion of scope will require a NWIP ballot and the completion of Form 4. See clause 2.3.1 of the ISO/IEC Directives Part 1 and Consolidated ISO Supplement.

Proposed development track

1 (24 months)

2 (36 months -

3 (48 months)

Proposed Project Leader (name and email address):

This proposal will be developed by:

An existing Working

A new Working Group

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

The TC/SC directly

Criteria 1c & 2, met:

Confirmation

For TS and PAS ONLY:

Conversion to an International Standard

<input type="checkbox"/> No final decision can yet be taken for the following reason(s) (indicate when decision is expected):
<input type="checkbox"/> Other (Please describe, e.g. division into parts, combination with another IS, registration as a PWI)

Secretariat: SCC	Date: 2016-12-13	Signature of TC/SC Ferrero, Jim Mr
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Systematic Review voting result

Reference	ISO/TS 15869:2009	Committee	ISO/TC 197
Edition number	1	Vienna agreement	
English title	Gaseous hydrogen and hydrogen blends -- Land vehicle fuel tanks		
French title	Hydrogène gazeux et mélanges d'hydrogène gazeux -- Réservoirs de carburant pour véhicules terrestres		
Start date	2016-04-15	End date	2016-09-15
Opened on	2016-04-15 00:36:30	Closed on	2016-09-17 00:11:06
Status	Closed		
Voting stage	Systematic review	Version number	1
Vote in parallel with			
Note			

Questions	
Q.1	Recommended action
Q.2	Has this International Standard been adopted or is it intended to be adopted in the future as a national standard or other publication?
Q.3	Is the national publication identical to the International Standard or was it modified?
Q.4	If this International Standard has not been nationally adopted, is it applied or used in your country without national adoption or are products/processes/services used in your country based on this standard?
Q.5	Is this International Standard, or its national adoption, referenced in regulations in your country?
Q.6	In case the committee decides to Revise/Amend, will/are you committed to participate actively in the development of the project?

Votes by members												
Country	Member	Status	Confirm	Revise / Amend	With-draw	Abstain lack of consensus	Abstain lack of national expert input	Q.2	Q.3	Q.4	Q.5	Q.6
Argentina	IRAM	P-Member	X					No		Yes	No	Yes (experts nominated)
Australia	SA	O-Member					X	No		No	No	No
Canada	SCC	Secretariat	X					No		No	No	No
China	SAC	P-Member	X					Yes	Modified		No	Yes (experts nominated)
Czech Republic	UNMZ	P-Member	X					Yes	Identical		No	No
Denmark	DS	P-Member					X	No		No	No	No

Votes by members

Country	Member	Status	Confirm	Revise / Amend	Withdraw	Abstain lack of consensus	Abstain lack of national expert input	Q.2	Q.3	Q.4	Q.5	Q.6
Egypt	EOS	P-Member										
France	AFNOR	P-Member					X	No		No	No	No
Germany	DIN	P-Member			X			No		No	No	No
India	BIS	P-Member	X					No		No	No	No
Italy	UNI	P-Member					X	No		No	No	No
Japan	JISC	P-Member			X			No		No	No	Yes (experts nominated)
Korea, Republic of	KATS	P-Member				X		No		No	No	No
Netherlands	NEN	P-Member					X	No		No	No	No
New Zealand	NZSO	P-Member		X				No		Yes	No	No
Norway	SN	P-Member					X	No		Yes	No	No
Russian Federation	GOST R	P-Member	X					Yes	Identical		No	Yes (experts nominated)
Spain	AENOR	P-Member					X	No		No	No	No
Sri Lanka	SLSI	O-Member				X		Yes	Modified		No	Yes (experts nominated)
Sweden	SIS	P-Member					X	No		No	No	No
United Kingdom	BSI	P-Member	X					Yes	Identical		No	No
United States	ANSI	P-Member	X					No		Yes	No	Yes (experts nominated)
P-Members TOTALS												
Total of P-Members voting (*) : 11												
Confirm : 8			8	1	2	1	7	4 Yes 15 No	3 Identical 1 Modified	4 Yes 11 No	0 Yes 19 No	5 Yes 14 No
Revise / Amend : 1												
Withdraw : 2												
TOTALS			8	1	2	2	8	5 Yes 16 No	3 Identical 2 Modified	4 Yes 12 No	0 Yes 21 No	6 Yes 15 No

(*): P-Members having abstained are not counted

Answers to Q.1: "Recommended action" (all votes)

Answers to Q.1: "Recommended action" (all votes)		
2 x	Withdraw	Germany (DIN) Japan (JISC)
1 x	Revise / Amend	New Zealand (NZSO)
8 x	Confirm	Argentina (IRAM) Canada (SCC) China (SAC) Czech Republic (UNMZ) India (BIS) Russian Federation (GOST R) United Kingdom (BSI) United States (ANSI)
2 x	Abstain (consensus)	Korea, Republic of (KATS) Sri Lanka (SLSI)
8 x	Abstain (expertise)	Australia (SA) Denmark (DS) France (AFNOR) Italy (UNI) Netherlands (NEN) Norway (SN) Spain (AENOR) Sweden (SIS)
Comments		
Germany (DIN) Klaas, Uwe Mr	ISO/TS 15869 will soon be replaced by ISO 19881 "Gaseous hydrogen - land vehicle fuel tanks", which is under development, so that ISO/TS 15869 should be withdrawn.	
Japan (JISC) TAMAKI, Toshihiro Mr	Please see the attached Word file which the comment for Q1 is as follows : The standard for hydrogen tanks of land vehicle is now under discussion in ISO/TC197 WG18 as ISO19881. This standard is discussing in conjunction with UN GTR13. So the deliberation for ISO19881 shall be proceeded.	
New Zealand (NZSO) Harniss, Bev Mrs	The last review was 2013 - 4 years after publication.	
Sri Lanka (SLSI) Sirikumara, Jayantha Mr	Sri Lanka abstain	
United States (ANSI) Team, ANSI ISO	The U.S. recommends confirming this document because it will be replaced by ISO 19881. The current scope of the document includes hydrogen-only tanks, and may conflict with other documents, such as 19881, the GTR.	

Answers to Q.2: "Has this International Standard been adopted or is it intended to be adopted in the future as a national standard or other publication?" (all votes)		
5 x	Yes	China (SAC) Czech Republic (UNMZ) Russian Federation (GOST R) Sri Lanka (SLSI) United Kingdom (BSI)
16 x	No	Argentina (IRAM) Australia (SA) Canada (SCC) Denmark (DS) France (AFNOR) Germany (DIN) India (BIS) Italy (UNI) Japan (JISC) Korea, Republic of (KATS) Netherlands (NEN) New Zealand (NZSO) Norway (SN) Spain (AENOR) Sweden (SIS) United States (ANSI)
Comments		
Argentina (IRAM) Santella, Mabel Mrs	This TS represents a useful source of information in technical discussions between hydrogen and natural gas developers.	
Australia (SA) Anderson, John Mr	No comment.	
Canada (SCC) Geraghty, Christine Mrs	WG 18 is developing the standard 19881 that will replace this TS.	
China (SAC) Wang, Geng	SAC/TC309 is planning to adopt this standard.	
Czech Republic (UNMZ) Kuklova, Lydie Mrs.	It is intended to be adopted as a national standard.	
Denmark (DS) Velk, Per Mr	The standard has not been adopted in DK	
France (AFNOR) Pillard, Valérie Mme	If used, this standard is used in English	
Germany (DIN) Klaas, Uwe Mr	Never been regarded as suitable.	
India (BIS) Das, U K Mr	It may be adopted in the future.	
Italy (UNI) Luppino, Lucilla Ms	-	

Answers to Q.2: "Has this International Standard been adopted or is it intended to be adopted in the future as a national standard or other publication?" (all votes)	
Comments	
Japan (JISC) TAMAKI, Toshihiro Mr	Please see the attached Word file which the comment for Q2 is as follows : Japanese law has already been amended based on UN GTR13. There is no plan in the future adoption of ISO TS15869 in Japan.
Korea, Republic of (KATS) Kim, Sookrae Mr	no information
Netherlands (NEN) Ramautar, Natasja Mrs.	no comments
New Zealand (NZSO) Harniss, Bev Mrs	The ISO standard is available for sale on our website.
Norway (SN) Borgos, Kari Synnøve Ms	Any national adoption of ISO standards is determined by market demands.
Russian Federation (GOST R) Poluektova, Olga Ms	GOST R 55891-2013/ISO/TS 15869:2009
Spain (AENOR) JORQUERA, Jose Mr	No interest
Sri Lanka (SLSI) Sirikumara, Jayantha Mr	In the future Sri Lanka is going to adopt this
Sweden (SIS) Widebeck, Malin Ms	-
United Kingdom (BSI) Operations Support Centre, OSC Ms	Implemented as DD ISO/TS 15869:2009
United States (ANSI) Team, ANSI ISO	This document has been used by industry pending release of a national or ISO standard

Answers to Q.3: "Is the national publication identical to the International Standard or was it modified?" (all votes)	
3 x Identical	Czech Republic (UNMZ) Russian Federation (GOST R) United Kingdom (BSI)
2 x Modified	China (SAC) Sri Lanka (SLSI)
Comments	
China (SAC) Wang, Geng	According to the related Chinese regulations.
Sri Lanka (SLSI) Sirikumara, Jayantha Mr	As per Sri lanka context, we need to modify

Answers to Q.4: "If this International Standard has not been nationally adopted, is it applied or used in your country without national adoption or are products/processes/services used in your country based on this standard?" (all votes)	
4 x Yes	Argentina (IRAM) New Zealand (NZSO) Norway (SN) United States (ANSI)
12 x No	Australia (SA) Canada (SCC) Denmark (DS) France (AFNOR) Germany (DIN) India (BIS) Italy (UNI) Japan (JISC) Korea, Republic of (KATS) Netherlands (NEN) Spain (AENOR) Sweden (SIS)
Comments	
Argentina (IRAM) Santella, Mabel Mrs	This TS represents a useful source of information in technical discussions between hydrogen and natural gas developers
New Zealand (NZSO) Harniss, Bev Mrs	Yes. This is one of the standards that we are referencing in searching for a 700 bar tank for the hydrogen quad bike being launched on 9 December 2016 at Unitec, Auckland, New Zealand. The current FCEV model is type 3 and we understand that the next generation FCEV is type 4.
Norway (SN) Borgos, Kari Synnøve Ms	It cannot be ruled out.

Answers to Q.4: "If this International Standard has not been nationally adopted, is it applied or used in your country without national adoption or are products/processes/services used in your country based on this standard?" (all votes)

Comments	
United States (ANSI) Team, ANSI ISO	This document has been used by industry pending release of a national or ISO standard

Answers to Q.5: "Is this International Standard, or its national adoption, referenced in regulations in your country?" (all votes)

0 x Yes	
21 x No	Argentina (IRAM) Australia (SA) Canada (SCC) China (SAC) Czech Republic (UNMZ) Denmark (DS) France (AFNOR) Germany (DIN) India (BIS) Italy (UNI) Japan (JISC) Korea, Republic of (KATS) Netherlands (NEN) New Zealand (NZSO) Norway (SN) Russian Federation (GOST R) Spain (AENOR) Sri Lanka (SLSI) Sweden (SIS) United Kingdom (BSI) United States (ANSI)

Answers to Q.6: "In case the committee decides to Revise/Amend, will/are you committed to participate actively in the development of the project?" (all votes)

6 x Yes	Argentina (IRAM) China (SAC) Japan (JISC) Russian Federation (GOST R) Sri Lanka (SLSI) United States (ANSI)
15 x No	Australia (SA) Canada (SCC) Czech Republic (UNMZ) Denmark (DS) France (AFNOR) Germany (DIN) India (BIS) Italy (UNI) Korea, Republic of (KATS) Netherlands (NEN) New Zealand (NZSO) Norway (SN) Spain (AENOR) Sweden (SIS) United Kingdom (BSI)

Comments

Argentina (IRAM) Santella, Mabel Mrs	Cristian Vazquez - cvazquez@iram.org.ar Jose Luis Aprea - cneanqn@infovia.com.ar
China (SAC) Wang, Geng	Prof.Zheng Jingyang jyzh@zju.edu.cn
Japan (JISC) TAMAKI, Toshihiro Mr	Please see the attached Word file which the comment for Q6 is as follows : Experts nominated : Hiroaki Tamura (e-mail : thiroaki@jari.or.jp) Organization : Japan Automobile Reserch Institute
Russian Federation (GOST R) Poluektova, Olga Ms	Mr. Alexander Ramenskiy (Ramenskiy@mail.ru)
Sri Lanka (SLSI) Sirikumara, Jayantha Mr	I can participate with Sri lanka stake holders, if fund is avilable.
United States (ANSI) Team, ANSI ISO	John Eihuse, Hexagon Lincoln, john.eihusen@hexagonlincoln.com Spencer Quong, Quong & Associates, squong@squong.com (possibly)

Comment files from voters

Japan (JISC) TAMAKI, Toshihiro Mr	See linked comment file: ISO TS 15869 2009 JISC.doc (access restricted to ballot audience)
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