



ISO/TC 197
ISO/TC 197 - Hydrogen technologies
Email of secretary: jim.ferrero@bnq.qc.ca
Secretariat: SCC (Canada)

N601 NWIP from U.S. Fueling station fittings

Document type: NP ballot

Date of document: 2013-08-05

Expected action: VOTE

Action due date: 2013-10-06

Background: Dear TC-Member,

Please find attached the NWIP for the development of an ISO Standard for *Gaseous hydrogen – Fueling stations – Fittings* submitted by the U.S.

This NWIP has been posted on the ISO Balloting Portal and P-Members are asked to vote and state the rationale for their vote.

Note that the TC/197 TAB recommendation for this NWIP is a separate N-document (N602).

Best regards,

Jim Ferrero

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



NEW WORK ITEM PROPOSAL	
Closing date for voting 2013-10-06	Reference number (to be given by the Secretariat) ISO/TC 197 N 601
Date of circulation 2013-08-06	
Secretariat CANADA / SCC / BNQ	

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, or 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.

IMPORTANT NOTE: Proposals without adequate justification risk rejection or referral to originator.

Guidelines for proposing and justifying a new work item are contained in Annex C of the ISO/IEC Directives, Part 1.

Proposal (to be completed by the proposer)

<p>Title of the proposed deliverable. <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>English title Gaseous hydrogen – Fueling stations – Fittings</p> <p>French title (if available)</p>	
<p>Scope of the proposed deliverable.</p> <p>This standard specifies uniform methods for testing and evaluating the performance of fittings, including connectors and stud ends for ports, used with compressed hydrogen gas in hydrogen fueling station applications. This standard does not include quick action couplings, flanges, or welded joints and devices covered or subject to requirements in SAE J2600, Compressed Hydrogen Surface Vehicle Refueling Connection Devices; ISO 17268, Gaseous hydrogen land vehicle refueling connection devices; and ANSI/CSA HGV-4.4, Breakaway devices for compressed hydrogen dispensing hoses and systems.</p>	

<p>Purpose and justification of the proposal.</p> <p>The purpose of the proposed standard is to promote the implementation of performance based testing for components of dispensing systems and fueling stations that are based on proven engineering principles, research and the combined expertise of gas utilities, fuel providers, manufacturers, users, and others having specialized experience.</p> <p>The successful commercialization of hydrogen vehicle technologies requires codes and standards pertaining to fueling stations, vehicle fuel system components, and the global homologation of standards requirements for technologies with the same end use. Essentially this will allow manufacturers to achieve economies of scale by producing one product for use globally.</p> <p>Industry has stated there are no international standards addressing safety requirements for hydrogen vehicle fueling technologies. International harmonization contributes to reducing technical barriers and stimulates related markets. The development of a suite of standards that address hydrogen gas vehicles and fueling stations is required. These standards will provide internationally homologized minimum safety performance criteria at the component and materials of construction level, thus providing a foundation to build a safe “fueling system.”</p> <p>This proposed standard relates to fittings for use in compressed hydrogen fueling station applications. The term “fitting” includes fittings, connectors, and stud ends for ports.</p> <p>A lack of internationally harmonized standards will further delay the successful commercialization of compressed hydrogen as a vehicle fuel.</p>
<p>If a draft is attached to this proposal,:</p> <p>Please select from one of the following options (note that if no option is selected, the default will be the first option):</p> <p><input checked="" type="checkbox"/> Draft document will be registered as new project in the committee's work programme (stage 20.00)</p> <p><input type="checkbox"/> Draft document can be registered as a Working Draft (WD – stage 20.20)</p> <p><input type="checkbox"/> Draft document can be registered as a Committee Draft (CD – stage 30.00)</p> <p><input type="checkbox"/> Draft document can be registered as a Draft International Standard (DIS – stage 40.00)</p>
<p>Is this a Management Systems Standard (MSS)?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>Indication(s) of the preferred type or types of deliverable(s) to be produced under the proposal.</p> <p><input checked="" type="checkbox"/> International Standard <input type="checkbox"/> Technical Specification <input type="checkbox"/> Publicly Available Specification <input type="checkbox"/> Technical Report</p>
<p>Proposed development track <input checked="" type="checkbox"/> 1 (24 months) <input type="checkbox"/> 2 (36 months - default) <input type="checkbox"/> 3 (48 months)</p>
<p>Known patented items (see ISO/IEC Directives, Part 1 for important guidance)</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes", provide full information as annex</p>
<p>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.</p> <p>There are currently no international standards that address fueling technology. CSA Group is the only SDO that has produced consensus based standards for hydrogen fueling technologies.</p>
<p>A listing of relevant existing documents at the international, regional and national levels.</p> <p>CSA HGV 4.10 Fittings for compressed hydrogen gas and hydrogen rich gas mixtures</p> <p>SAE J2719/ISO 14687-2 Fuel Quality</p> <p>ANSI AIAA G-095/CSA CHMC1/ASME B31.12 Hydrogen Material Compatibility</p> <p>ISO/TR 15916 Basic considerations for the safety of hydrogen systems</p>
<p>A simple and concise statement identifying and describing relevant affected stakeholder categories (including small and medium sized enterprises) and how they will each benefit from or be impacted by the proposed deliverable(s)</p> <p>The stakeholders expected to benefit from the proposed standard include automotive manufacturers and producers of hydrogen dispensing technology (including fittings and connectors manufacturers) and the general public.</p>

New work item proposal

<p>Liaisons: 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). ISO/TC 22</p>	<p>Joint/parallel work: Possible joint/parallel work with: <input type="checkbox"/> IEC (please specify committee ID) <input type="checkbox"/> CEN (please specify committee ID) <input checked="" type="checkbox"/> Other (please specify) CSA Group</p>
<p>A listing of relevant countries which are not already P-members of the committee. N/A</p>	
<p>Preparatory work (at a minimum an outline should be included with the proposal) <input type="checkbox"/> A draft is attached <input checked="" type="checkbox"/> An outline is attached <input type="checkbox"/> An existing document to serve as initial basis The proposer or the proposer's organization is prepared to undertake the preparatory work required <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Proposed Project Leader (name and e-mail address) Peter Ehlers Program Manager Alternative Fuel Technologies CSA Group peter.ehlers@csagroup.org</p>	<p>Name of the Proposer (include contact information) Peter Ehlers Program Manager Alternative Fuel Technologies CSA Group 8501 E. Pleasant Valley Rd Cleveland, OH 44131 peter.ehlers@csagroup.org 216-524-4990, Ext. 88031</p>
<p>Supplementary information relating to the proposal <input checked="" type="checkbox"/> This proposal relates to a new ISO document; <input type="checkbox"/> This proposal relates to the amendment of existing ISO document <input type="checkbox"/> This proposal is for the revision of an existing ISO document; <input type="checkbox"/> This proposal relates to the adoption as an active project of an item currently registered as a Preliminary Work Item; <input type="checkbox"/> This proposal relates to the re-establishment of a cancelled project as an active project. Other:</p>	

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

- Cover and Table of Contents of Fittings for compressed hydrogen gas and hydrogen rich gas mixtures, CSA HGV 4.10



**CSA
Group**

Standard For Fittings for compressed hydrogen gas and hydrogen rich gas mixtures

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NOTE

This standard contains SI (Metric) equivalents to the yard/pound quantities, the purpose being to allow the standard to be used in SI (Metric) units. (Standard for use of the International System of Units (SI): The Modern Metric System, IEEE/ASTM SI 10 or Metric Practice Guide, CAN/CSA Z234.1 are used as a guide in making metric conversion from yard/pound quantities.) If a value for a measurement and an equivalent value in other units, the first stated is to be regarded as the requirement. The given equivalent value may be approximate. If a value for a measurement and an equivalent value in other units, are both specified as a quoted marking requirement, the first stated unit, or both shall be provided.