



**Report of the Secretariat  
for the 15th plenary meeting of ISO/TC 197 on 8 June 2006 in Paris, France**

<input checked="" type="checkbox"/> Next plenary meeting of ISO/TC 197 on: <b>8 June 2006</b>	<input checked="" type="checkbox"/> Deadline for appointment of delegates: <b>27 April 2006</b>
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Dear members,

We are pleased to provide our report in preparation for the next meeting of ISO/TC 197, which report consists of the following:

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## 1 General information

<u>Committee</u>	ISO/TC 197 <i>Hydrogen technologies</i>		
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## 2 Scope of the technical committee

Standardization in the field of systems and devices for the production, storage, transport, measurement and use of hydrogen.

## 3 Previous meetings of ISO/TC 197

<u>No.</u>	<u>Date</u>	<u>Location</u>	<u>Report reference</u>	<u>Resolutions</u>
14	2005-11-10	Palm Spings, USA	<b>N341</b>	299 to 305 incl.
13	2004-07-02	Yokohama, JAPAN	<b>N 307</b>	288 to 298 incl.
12	2003-09-04	Grenoble, FRANCE	<b>N 269</b>	279 to 287 incl.
11	2002-06-13/14	Montréal, CANADA	<b>N 249</b>	254 to 278 incl.
10	2001-10-25	Paris, FRANCE	<b>N 204</b>	218 to 253 incl.
9	2000-09-15	Höllriegelskreuth/Munich, GERMANY	<b>N 162</b>	186 to 217 incl.
8	1999-04-06	Vienna, Virginia, USA	<b>N 135</b>	156 to 185 incl.
7	1998-06-26	Buenos Aires, ARGENTINA	<b>N 119</b>	126 to 155 incl.
6	1997-05-27	Toronto, CANADA	<b>N 96</b>	104 to 125 incl.
5	1996-06-28	Stuttgart, GERMANY	<b>N 79</b>	84 to 103 incl.
4	1995-06-07	Quebec City, CANADA	<b>N 68</b>	69 to 83 incl.
3	1994-06-17	Cocoa Beach, UNITED STATES	<b>N 58</b>	44 to 68 incl.
2	1993-06-24/25	Tokyo, JAPAN	<b>N 47</b>	19 to 43 incl.
1	1990-06-21/22	Zurich, SWITZERLAND	<b>N 5, 6, 7, 8, 9</b>	1 to 18 incl.

## 4 Structure

The current structure of ISO/TC 197 consists of working groups reporting directly to the technical committee. Each of these working groups has the responsibility of one or two projects as described below..

WG and convener	Identification	Scope	Status update	Agreed target dates for the next stage
<p><b>WG 1</b> Joint with ISO/TC 22 Convener: D. Robert Hay, Canada</p>	<p><b>ISO 13985</b> Liquid hydrogen — Land vehicle fuel tanks <i>Hydrogène liquide — Réservoirs de carburant pour véhicules terrestres</i></p>	<p>This International Standard specifies the construction requirements for refillable fuel tanks for liquid hydrogen used in land vehicles as well as the testing methods required to ensure that a reasonable level of protection from loss of life and property resulting from fire and explosion is provided.</p> <p>This International Standard is applicable to fuel tanks intended to be permanently attached to land vehicles.</p>	<p>The FDIS was submitted to the ISO Central Secretariat on 13 February 2006.</p>	<p><b>FDIS:</b> 2006-01 <b>IS:</b> 2006-07</p>
<p><b>WG 5</b> Joint with ISO/TC 22 Convener: Livio Gambone, Canada</p>	<p><b>ISO 17268</b> Compressed hydrogen surface vehicle refuelling connection devices <i>Dispositifs de raccordement pour le ravitaillement des véhicules terrestres en hydrogène comprimé</i></p>	<p><b>1.1</b> This International Standard applies to design, safety and operation verification of Compressed Hydrogen Surface Vehicle (CHSV) refuelling connection devices hereinafter referred to as nozzle and receptacle. CHSV Refuelling nozzles and receptacles consist of the following components, as applicable.</p> <ul style="list-style-type: none"> <li>• Receptacle and protective cap (mounted on vehicle);</li> <li>• Nozzle.</li> </ul> <p><b>1.2</b> This International Standard applies to devices which have working pressures of 25 MPa and 35 MPa, hereinafter referred to in this International Standard as the following:</p> <ul style="list-style-type: none"> <li>• H25 - 25 MPa at 15 °C</li> <li>• H35 - 35 MPa at 15 °C</li> </ul> <p><b>1.3</b> This International Standard applies to nozzles and receptacles which (1) prevent hydrogen fuelled vehicles from being refuelled by dispenser stations with working pressures higher than the vehicle; (2) allow hydrogen vehicles to be refuelled by dispenser stations with working pressures equal to or lower than the vehicle fuel system working pressure, (3) prevent hydrogen fuelled vehicles from being refuelled by other compressed gases dispensing stations and (4) prevent other gaseous fuelled vehicles from being refuelled by hydrogen dispensing stations.</p> <p><b>1.4</b> All dimensions used in this document are in metric units [International System of Units (SI)].</p> <p><b>1.5</b> For the purposes of this document, compressed hydrogen gas meeting the requirements of ISO 14687 is to be used.</p> <p><b>1.6</b> All references to pressures (MPa) throughout this document are to be considered gauge pressures unless otherwise specified.</p>	<p>The FDIS circulation ended on 11 March 2006. The FDIS was approved and the publication of the International standard is underway.</p> <p>At the same time, the WG is actively working on resolving the deferred technical issues that will be included in a revision of the International Standard.</p>	<p><b>First publication</b> <b>FDIS:</b> 2005-12 <b>IS:</b> 2006-06</p> <p><b>Revision</b> <b>CD:</b> 2006-12 <b>DIS:</b> 2007-06 <b>FDIS:</b> 2008-06 <b>IS:</b> 2008-12.</p>

WG and convener	Identification	Scope	Status update	Agreed target dates for the next stage
		<p>All test procedures listed in this document are design verification test procedures unless otherwise noted.</p> <p>All products are to pass all tests to be considered to have met this design standard.</p>		
<p><b>WG 6</b></p> <p>Joint with ISO/TC 22 and ISO/TC 58/SC 3</p> <p>Convener: Craig Webster, Canada</p>	<p><b>ISO 15869</b></p> <p>Gaseous hydrogen and hydrogen blends —Land vehicle fuel tanks</p> <p><i>Hydrogène gazeux et mélanges d'hydrogène gazeux — Réservoirs de carburant pour véhicules terrestres</i></p>	<p>This International Standard specifies the requirements for light-weight refillable fuel tanks intended for the on-board storage of high pressure compressed gaseous hydrogen or hydrogen blends on land vehicles.</p> <p>This International Standard is not intended as a specification for fuel tanks used for solid or liquid hydride hydrogen storage applications.</p> <p>This International Standard is applicable for fuel tanks of steel, stainless steel, aluminium or non-metallic construction material, using any design or method of manufacture suitable for its specified service conditions.</p> <p>This Standard applies to the following types of fuel tank designs:</p> <ul style="list-style-type: none"> <li>• Type 1 – Metal fuel tanks;</li> <li>• Type 2 – Hoop wrapped composite fuel tanks with a metal liner;</li> <li>• Type 3 – Fully wrapped composite fuel tanks with a metal liner;</li> <li>• Type 4 – Fully wrapped composite fuel tanks with non-metallic liner.</li> </ul>	<p>The second DIS was forwarded to the ISO Central Secretariat on 31 March 2006.</p>	<p><b>DIS2:</b> 2006-02-28  <b>FDIS:</b> 2006-10-28  <b>IS:</b> 2007-04-28</p>

WG and convener	Identification	Scope	Status update	Agreed target dates for the next stage
<p><b>WG 8</b></p> <p>Convener: Randy Dey, Canada</p>	<p><b>ISO 22734-1</b></p> <p>Hydrogen generators using water electrolysis process — Part 1: Industrial and commercial applications</p> <p><i>Générateurs d'hydrogène utilisant le procédé d'électrolyse de l'eau — Partie 1: Applications industrielles et commerciales</i></p>	<p>This standard defines the construction, safety and performance requirements of packaged or factory matched hydrogen gas generation appliances, herein referred to as hydrogen generators, using electrochemical reactions to electrolyse water to produce hydrogen and oxygen gas.</p> <p>This standard is applicable to hydrogen generators that use the following types of ion transport medium:</p> <ul style="list-style-type: none"> <li>— Group of aqueous bases;</li> <li>— Solid polymeric materials with acidic function group additions such as acid proton exchange membrane (PEM).</li> </ul> <p>This standard is applicable to hydrogen generators intended for indoor and outdoor commercial and industrial use (non-residential use). Hydrogen generators that can also be used to generate electricity such as reversible fuel cells are excluded from the scope of this standard.</p> <p>This standard is intended to be used for certification purposes.</p>	<p>The first DIS was approved on 29 December 2005</p> <p>The comments received were returned to the WG for its consideration (see ISO/TC 197 doc. <b>N 333</b>).</p> <p>A revised text will be submitted to the ISO Central Secretariat for the approval procedure (FDIS vote) after the comments have been addressed by the working group.</p>	<p><b>FDIS:</b> 2006-07</p> <p><b>IS:</b> 2007-01</p>

WG and convener	Identification	Scope	Status update	Agreed target dates for the next stage
<p><b>WG 8</b></p> <p>Convener: Randy Dey, Canada</p>	<p><b>ISO 22734-2</b></p> <p>Hydrogen generators using water electrolysis process — Part 2: Residential applications</p> <p><i>Générateurs d'hydrogène utilisant le procédé d'électrolyse de l'eau — Partie 2: Applications résidentielles</i></p>	<p>This standard defines the construction, safety and performance requirements of packaged hydrogen gas generation appliances, herein referred to as hydrogen generators, using electrochemical reactions to electrolyse water to produce hydrogen and oxygen gas.</p> <p>This standard is applicable to hydrogen generators that use the following types of ion transport medium:</p> <ul style="list-style-type: none"> <li>— group of aqueous bases;</li> <li>— solid polymeric materials with acidic function group additions such as acid proton exchange membrane (PEM).</li> </ul> <p>This standard is applicable to hydrogen generators intended for indoor and outdoor residential use (non-commercial and non-industrial use) in sheltered areas such as car-ports, garages, utility rooms and similar areas of a residence. This standard includes cord-connected equipment for outdoor and garage use only.</p> <p>Hydrogen generators that can also be used to generate electricity such as reversible fuel cells are excluded from the scope of this standard.</p> <p>This standard does not include portable hydrogen generators.</p> <p>Hydrogen generators that also supply oxygen as a product are excluded from the scope of this standard.</p> <p>This standard is intended to be used for certification purposes.</p>	<p>The first committee draft (ISO/TC 197 doc. <b>N 337</b>) is being circulated for comments until 2 May 2006.</p>	<p><b>CD:</b> 2006-01  <b>DIS:</b> 2006-07  <b>FDIS:</b> 2007-07  <b>IS:</b> 2008-01</p>

WG and convener	Identification	Scope	Status update	Agreed target dates for the next stage
<p><b>WG 9</b></p> <p>Convener: Falco Thuis, Netherlands</p>	<p><b>ISO 16110-1</b></p> <p>Hydrogen generators using fuel processing technologies — Part 1: Safety</p> <p><i>Générateurs d'hydrogène utilisant les technologies de traitement du carburant — Partie 1: Sécurité</i></p>	<p>This international standard applies to packaged, self-contained or factory matched hydrogen generation systems with a capacity less than 400 m<sup>3</sup>/hr at 20 °C and 101,325 kPa, herein referred as hydrogen generators, that convert an input fuel to a hydrogen rich stream of composition and conditions suitable for the type of device using the hydrogen (e.g. a fuel cell power system or a hydrogen compression, storage and delivery system).</p> <p>It applies to hydrogen generators using one or a combination of the following input fuels:</p> <ul style="list-style-type: none"> <li>a) natural gas and other methane rich gases derived from renewable (biomass) or fossil fuel sources, e.g. landfill gas, digester gas, coal mine gas;</li> <li>b) fuels derived from oil refining, e.g. diesel, gasoline, kerosene, liquefied petroleum gases such as propane and butane;</li> <li>c) alcohols, esters, ethers, aldehydes, ketones, Fischer-Tropsch liquids and other suitable hydrogen-rich organic compounds derived from renewable (biomass) or fossil fuel sources, e.g. methanol, ethanol, di-methyl ether, biodiesel;</li> <li>d) gaseous mixtures containing hydrogen gas, e.g. synthesis gas, town gas.</li> </ul> <p>This standard is applicable to stationary hydrogen generators intended for indoor and outdoor commercial, industrial, light industrial and residential use.</p> <p>This standard aims to cover all significant hazards, hazardous situations and events relevant to hydrogen generators, with the exception of those associated with environmental compatibility (installation conditions), when they are used as intended and under the conditions foreseen by the manufacturer.</p> <p>NOTE A list of significant hazards and hazardous situations dealt with in this standard is found in Annex A.</p> <p>This international standard is a product safety standard suitable for conformity assessment as stated in IEC Guide 104, ISO/IEC Guide 51 and ISO/IEC Guide 7.</p>	<p>The first DIS was approved on 14 March 2006.</p> <p>The comments received were returned to the WG for its consideration (see ISO/TC 197 doc. <b>N 340</b>).</p>	<p><b>FDIS:</b> 2006-09</p> <p><b>IS:</b> 2007-03</p>

WG and convener	Identification	Scope	Status update	Agreed target dates for the next stage
<p><b>WG 9</b></p> <p>Convener: Falco Thuis, Netherlands</p>	<p><b>ISO 16110-2</b></p> <p>Hydrogen generators using fuel processing technologies — Part 2: Test methods for performance</p> <p><i>Générateurs d'hydrogène utilisant les technologies de traitement du carburant — Partie 2 Méthodes d'essai pour évaluer la performance</i></p>	<p>This International Standard provides test procedures for determining the performance of packaged, self-contained or factory matched hydrogen generation systems with a capacity less than 400 Nm<sup>3</sup>/hr (normal cubic meters per hour), herein referred as hydrogen generators, that convert a fuel to a hydrogen rich stream of composition and conditions suitable for the type of device or process using the hydrogen (e.g. a fuel cell power system, industrial application or a hydrogen compression, storage and delivery system).</p>	<p>The working group is working on the preparation of the first committee draft.</p>	<p><b>CD:</b> 2006-03  <b>DIS:</b> 2006-09  <b>FDIS:</b> 2007-09  <b>IS:</b> 2008-03</p>
<p><b>WG 10</b></p> <p>Convener: Ned Stetson, USA</p>	<p><b>ISO 16111</b></p> <p>Transportable gas storage devices — Hydrogen absorbed in reversible metal hydrides</p> <p><i>Appareils de stockage de gaz transportables — Hydrogène absorbé dans un hydrure métallique réversible</i></p>	<p>This international standard defines the requirements applicable to the safe design and use of transportable hydrogen gas storage canisters including all necessary shut-off valve, pressure-relief devices (PRD), and appurtenances, intended for use with reversible metal hydride, hydrogen storage systems. This technical specification only applies to refillable storage canisters where hydrogen is the only transferred media. Storage canisters intended to be used as fixed fuel storage onboard hydrogen fuelled vehicles are excluded.</p>	<p>The second committee draft was circulated for approval as ISO/TC 197 document <b>N 332</b> until 20 March 2006.</p> <p>The editing committee work on the draft technical specification is completed.</p>	<p><b>DTS:</b> 2005-12  <b>TS:</b> 2006-06</p> <p><b>CD2:</b> 2005-12  <b>DIS:</b> 2006-06  <b>FDIS:</b> 2007-06  <b>IS:</b> 2007-12</p>
<p><b>WG 11</b></p> <p>Convener: Randy Dey, Canada</p>	<p><b>ISO 20012</b></p> <p>Gaseous hydrogen — Fuelling stations</p> <p><i>Hydrogène gazeux — Stations de remplissage</i></p>	<p>This Technical Specification specifies the characteristics of outdoor commercial fuelling stations that dispense gaseous hydrogen used as fuel onboard land vehicles of all types.</p> <p>It covers, as applicable, the system that produces gaseous hydrogen on-site, the system that stores and dispenses gaseous hydrogen from the point of supply at the fuelling station property to the filling connector installed onboard the land vehicle.</p>	<p>The working group is working on the preparation of the first draft technical specification.</p>	<p><b>DTS:</b> 2006-08  <b>TS:</b> 2007-02</p>



WG and convener	Identification	Scope	Status update	Agreed target dates for the next stage
<p><b>WG 12</b></p> <p>Convener: Yasuo Takagi, Japan</p>	<p>ISO 14687-2</p> <p>Hydrogen Fuel — Product Specification — Part 2: Proton exchange membrane (PEM) fuel cell applications for road vehicles</p> <p><i>Carburant hydrogène — Spécification de produit — Partie 2: Applications de piles à combustible à membrane échangeuse de protons (PEM) pour véhicules routiers</i></p>	<p>This Technical Specification specifies the quality characteristics of hydrogen fuel in order to assure uniformity of the hydrogen product as dispensed for utilization in PEM fuel cell road vehicle systems.</p>	<p>The working group is working on the preparation of the first draft technical specification, technical corrigendum 2 to ISO 14687:1999.</p> <p>The systematic review of ISO 14867:1999 is to be initiated, once the DTS and the technical corrigendum are ready for circulation.</p>	<p><b>DTC:</b> 2005-12 <b>DTS:</b> 2005-12 <b>TS:</b> 2006-06</p> <p><b>International Standard</b> <b>CD:</b> 2007-06 <b>DIS:</b> 2008-06 <b>FDIS:</b> 2009-06 <b>IS:</b> 2010-01</p>
<p><b>WG 13</b></p> <p>Convener: Ichiro Matsubara, Japan</p>	<p><b>ISO 26142</b></p> <p>Hydrogen detectors</p> <p><i>Détecteurs d'hydrogène</i></p>	<p>This international standard defines the performance requirements and the performance test methods of hydrogen detectors. The provisions in this standard cover the stationary hydrogen detectors used to achieve the multilevel safety operations such as nitrogen purging or ventilation and/or system shut-off corresponding to the hydrogen concentration. The requirements applicable to the control system as well as the installation requirements of hydrogen detectors are excluded. This standard sets out only the requirements applicable to a product standard, which include the performance requirements and the test methods of performance for hydrogen detectors such as precision, response time, stability, measuring range, selectivity, and poisoning. This standard can be used for quality assessment or certification of the detectors and establishes the provisions for type test.</p>	<p>This new project was registered by the ISO Central Secretariat on 8 September 2005.</p> <p>The working group is preparing the first committee draft.</p>	<p><b>CD:</b> 2006-09 <b>DIS:</b> 2007-03 <b>FDIS:</b> 2008-03 <b>IS:</b> 2008-09</p>

## **5 Subjects to be discussed at the 15th plenary meeting of ISO/TC 197**

In order to help committee members adequately prepare their delegates, information relevant to the main subjects that will be discussed during the next plenary meeting of ISO/TC 197 is provided in the next sub-sections of this report.

### **5.1 Agenda Item 3: Adoption of the Agenda**

The draft agenda (document **N 339**) will be approved under this item of the agenda. P-members are invited to inform the ISO/TC 197 Secretariat of any other business they would like to discuss during the next plenary meeting of ISO/TC 197 prior to 15 May 2006. Only the items that have been forwarded by 15 May 2006 to the ISO/TC 197 Secretariat will be discussed at the meeting.

### **5.2 Agenda Item 4: Appointment of the Drafting Committee for this Meeting**

A drafting committee will be established for drafting the resolutions taken during the plenary meeting. This drafting committee should comprise at least a technical expert with an extensive knowledge of English and the Secretary of ISO/TC 197.

### **5.3 Agenda Item 5: Approval of the Report of the 14th Plenary Meeting**

The *Report of the 14th plenary meeting of ISO/TC 197* (ISO/TC 197 document **N 341**) will be approved under this item of the agenda. Should there be some wrong or missing information, they should be reported to the Secretariat of ISO/TC 197 prior to 15 May 2006.

### **5.4 Agenda Item 6: Report of the Chairman**

The *Report of the Chairman* will be distributed ahead of the meeting and presented under this item of the draft agenda.

### **5.5 Agenda Item 7: Report of the Secretariat**

The *Report of the Secretariat for the 14th plenary meeting of ISO/TC 197* (ISO/TC 197 doc. **N 342**) will be dealt with under this item of the agenda. This report is reflecting the situation of the technical committee at the time of its drafting. Should there be errors in this document, they should be reported to the Secretariat of ISO/TC 197.

### **5.6 Agenda Item 8: Status of all Items of the Programme of Work**

#### **Agenda Item 9.1: Update of Target Dates for Work in Progress and Confirmation/Withdrawal of Items on which no Progress has been made**

Under items 8.1 to 8.8 and item 9.1 of the agenda, the conveners will be invited to present the progress report of their working groups. The report should include an update on the activities of the working group since the last plenary meeting, any suggested changes in the title and scope of the work item and a review of the target dates that have been agreed to at the last plenary meeting or at the creation of the working groups. If these target dates have been exceeded (see summary table under item 4), conveners should provide a justification and suggest new target dates to the technical committee.

P-members should be prepared to review the target dates and confirm the market relevance of the work items included in the ISO/TC 197 programme of work.

## 5.7 Agenda Item 9.2: Published Standards

Under this item of the agenda, the documents that have been published by ISO/TC 197 will be looked at.

Identification	Title	Status update
ISO 13984	Liquid hydrogen — Land vehicle fuelling system interface	The systematic review ended on 27 March 2006 (ISO/TC 197 doc. N 316).
ISO 14687	Hydrogen fuel — Product specification	The systematic review is to be initiated at the time of the circulation of ISO/DTS 14687-2.
ISO/PAS 15594	Airport hydrogen fuelling facility	Published in 2004.
ISO/TR 15916	Basic considerations for the safety of hydrogen systems	Published in 2004

## 5.8 Agenda Item 9.3: New Work Item Proposals and Creation of Working Groups

Complete and documented new work items proposals (NWIP) forwarded to the attention of the ISO/TC 197 Secretariat prior to 15 May 2006 will be discussed under this item of the agenda.

The originators of the NWIP will be invited to make a short presentation to the attendees. The NWIP will not be formally approved at the meeting. The ISO rules require that NWIP be circulated for voting for a period of three months.

## 5.9 Agenda Item 10.1: ISO/TC 197 Business Plan

Under this item of the draft agenda, the market information of the ISO/TC 197 Business plan (ISO/TC 197 doc. N 327) will be discussed.

The ISO/TC 197 Chairman is currently preparing a form that will clearly identify the information that is needed for updating the business plan. Each P-member will be asked to fill out the form for its country or region.

## 5.10 Agenda Item 10.2: Membership

Under this item of the draft agenda, the membership of ISO/TC 197 will be reviewed. The actual membership of ISO/TC 197 consists of 20 P-members and 10 O-members.

The participating members are Argentina, Austria, Belgium, Canada, Denmark, Egypt, France, Germany, India, Italy, Japan, the Netherlands, Norway, the Republic of Korea, the Russian Federation, Spain, Sweden, Switzerland, the United Kingdom and the United States of America.

The observer members are Australia, Brazil, China, the Czech Republic, Hungary, Jamaica, the Libyan Arab Jamahiriya, Serbia and Montenegro, Thailand, and Turkey.

We are pleased to advise you that India and the United Kingdom have recently joined the ranks of the ISO/TC 197 P-members.

## 5.11 Agenda Item 10.3: Ad hoc group on hydrogen components

The ad hoc group on hydrogen components will present its report under this item of the draft agenda. The objective of this ad hoc group is to come up with a path forward for the standardization of hydrogen components.

### 5.12 Agenda Item 10.4: ISO Round Table on Global Harmonization of Regulations, Codes and Standards (RC&S) for Gaseous Fuels and Vehicles

Under this item of the agenda, the chair of ISO/TC 197 will inform the members of the upcoming *ISO Round Table on Global Harmonization of RC&S for Gaseous Fuels and Vehicles*, which is to be held on 10 January 2007 in Geneva.

### 5.13 Agenda Item 11: Permanent Editing Committee

Under this item of the draft agenda, the composition of the permanent editing committee will be reviewed. This permanent editing committee is responsible for:

- updating and editing committee drafts (CD), enquiry drafts (DIS) and Final Draft International Standards (FDIS) considered at meetings or circulated between meetings;
- ensuring their conformity with Part 2 of the ISO/IEC Directives;
- ensuring the equivalence of the texts in the official languages.

### 5.14 Agenda Item 12.1: Existing Liaisons: ISO/TC 11, ISO/TC 22, ISO/TC 58/SC 3, IEC/TC 105 and ISO/TC 220

Under this item of the draft agenda, P-members will be given an update on the activities of its most important liaisons: ISO/TC 11 *Boilers and pressure vessels*, ISO/TC 22 *Road vehicles*, ISO/TC 58/SC 3 *Gas cylinder design* ISO/TC 220 *Cryogenic vessels* and IEC/TC 105 *Fuel cell technologies*.

### 5.15 Agenda Item 12.2: Establishment of New Liaisons and Cancellation of Liaisons

The relevance of maintaining, cancelling or creating liaisons will be looked at under this item of the draft agenda. The actual liaisons of ISO/TC 197 are listed below:

Organizations in liaison	Name of the Organization
ISO/TC 11	Boilers and pressure vessels
ISO/TC 20	Aircraft and space vehicles
ISO/TC 20/SC 14	Space systems and operations
ISO/TC 22	Road vehicles
ISO/TC 22/SC 21	Electric road vehicles
ISO/TC 22/SC 25	Road vehicles using natural gas
ISO/TC 58	Gas cylinders
ISO/TC 58/SC 3	Gas cylinder design
ISO/TC 70	Internal combustion engines
ISO/TC 118	Compressors, pneumatic tools and pneumatic machines
ISO/TC 153	Valves
ISO/TC 192	Gas turbines
ISO/TC 193	Natural gas
ISO/TC 203	Technical energy systems
ISO/TC 207	Environmental management
ISO/TC 220	Cryogenic vessels
IEC/TC 31	Electrical apparatus for explosive atmosphere
IEC/TC 105	Fuel cell technologies
EHA	European Hydrogen Association (Cat. A liaison)
NHA	National Hydrogen Association (Cat. D liaison)

### 5.16 Agenda Item 12.3: Cooperation with other Organizations

Under this item of the draft agenda, P-members will be given an update on the hydrogen vehicles related activities of the World Forum for Harmonization of Vehicle Regulations (WP.29) that acts within the framework of the policies of the United Nations Economic Commission for Europe (UN ECE).

### 5.17 Agenda Item 13: Any other Business

Any other business will be discussed under this item of the agenda.

### 5.18 Agenda Item 14: Requirements concerning a Subsequent Meeting

The location of the year 2007, 2008 and 2009 plenary meetings will be discussed under this item of the agenda.

## 6 Documents to bring to the meeting

Delegates should bring copies of the following documents. Hard copies of these documents will not be available at the meeting.

- Draft agenda **N 339**
- Report of the 14th plenary meeting **N 341**
- Report of the Chairman **To be distributed**
- Report of the Secretariat **N 342**
- Seventh version of the ISO/TC 197 Business plan **N 327**

We hope this report provides you with the necessary information required to be prepared for the plenary. Should you have any questions or need any additional information, please do not hesitate to contact us.

Yours sincerely,



Sylvie Gingras, Secretary of ISO/TC 197  
Bureau de normalisation du Québec  
on behalf of the Standards Council of Canada