



ISO/TC 197
Hydrogen technologies

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19880-1 and TS 20100 for fueling stations

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Background: Here is the presentation that was made by Andrei Tchouvelev concerning the draft 19880-1 and ISO/TS 20100, at the 2015 Plenary Meeting in California.

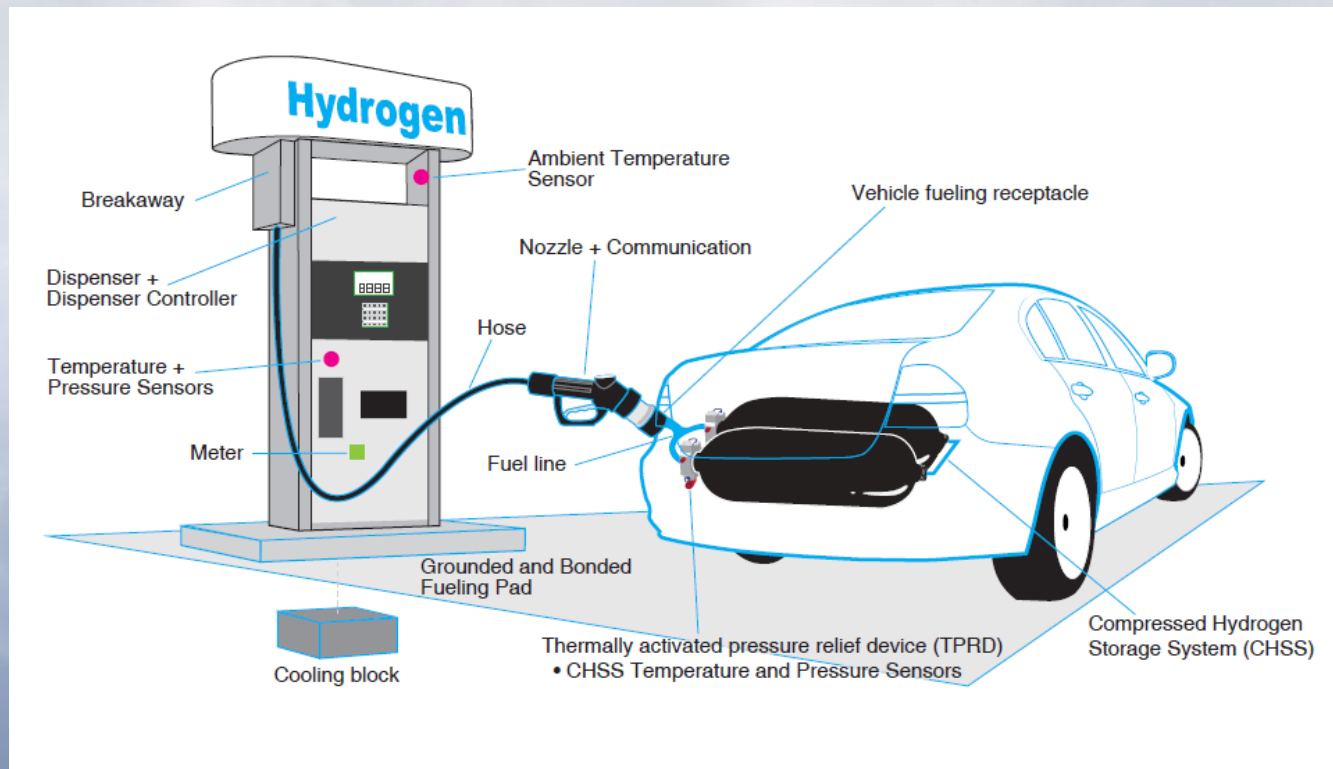
Committee URL: <http://isotc.iso.org/livelink/livelink/open/tc197>

Torrance, USA

December 3-4, 2015

ISO/TC 197 Plenary Meeting

ISO 19880-1 and 20100



ISO 19880-1 and 20100 Issues

- ❑ **TS vs TR: ISO perspective**
- ❑ **European Context: EU AFI Directive**
- ❑ **TS 20100: withdrawal**

ISO 19880-1 and 20100

- **TS vs TR: ISO perspective**
 - ✓ **No impact from ISO perspective within the current plan**
 - ✓ **Current ISO 19880-1 document fits better ISO definition of TS rather than TR**
 - ✓ **TR achieved 100% consensus and thus reached the level of consensus required for TS**
 - ✓ **TS publication requires a simple resolution by the TC, no CIB is necessary**
 - ✓ **If some P-members need more time to consult mirror committees, we can launch a CIB closing Jan 31, 2016 to have formal decision on TS / TR publication**

ISO 19880-1 and 20100 Issues

- **European Context:**
 - ✓ **EU AFI Directive – Transposition within Member States by November 18, 2016**

EU AFI Directive

28.10.2014

EN

Official Journal of the European Union

L 307/1

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(Legislative acts)

DIRECTIVES

DIRECTIVE 2014/94/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

of 22 October 2014

on the deployment of alternative fuels infrastructure

(Text with EEA relevance)

THE EUROPEAN PARLIAMENT AND THE COUNCIL OF THE EUROPEAN UNION,

EU AFI Directive Article 11

Article 11

Transposition

1. Member States shall bring into force the laws, regulations and administrative provisions necessary to comply with this Directive by 18 November 2016. They shall forthwith inform the Commission thereof.
2. When Member States adopt those provisions, they shall contain a reference to this Directive, or be accompanied by such a reference on the occasion of their official publication. The methods of making such reference shall be laid down by Member States.
3. Member States shall communicate to the Commission the text of the main provisions of national law which they adopt in the field covered by this Directive.

EU AFI Directive Annex 2

ANNEX II

TECHNICAL SPECIFICATIONS

2. **Technical specifications for hydrogen refuelling points for motor vehicles**
 - 2.1. Outdoor hydrogen refuelling points dispensing gaseous hydrogen used as fuel on board motor vehicles shall comply with the technical specifications of the ISO/TS 20100 Gaseous Hydrogen Fuelling specification.
 - 2.2. The hydrogen purity dispensed by hydrogen refuelling points shall comply with the technical specifications included in the ISO 14687-2 standard.
 - 2.3. Hydrogen refuelling points shall employ fuelling algorithms and equipment complying with the ISO/TS 20100 Gaseous Hydrogen Fuelling specification.
 - 2.4. Connectors for motor vehicles for the refuelling of gaseous hydrogen shall comply with the ISO 17268 gaseous hydrogen motor vehicle refuelling connection devices standard.

ISO 19880-1 and 20100 Issues

- **European Context: Impact**
 - ✓ **If 19880-1 is published as TR, EU cannot use it for the Transposition within Member States (presuming withdrawal of TS 20100)**
 - ✓ **At the same time, DIS 19880-1 will be available on time (Nov 2016) and in time for parallel ISO and CEN votes under Vienna Agreement to meet the EC mandate**

ISO 19880-1 and 20100 Issues

□ TS 20100:

- ✓ Unfit / unsafe to use for 700 bar fueling
- ✓ Must be withdrawn immediately to avoid adoption by national bodies (specifically within Transposition requirement of AFI Directive)
- ✓ Inform CEN and EC immediately of TS 20100 withdrawal
 - ❖ Note: as confirmed by ISO Central, TS 20100 will not be available after withdrawal.
- ✓ Need resolution by TC 197.