



ISO/TC 197
Hydrogen technologies

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Progress Report of WG 27 in 2016 Plenary rev

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Progress Report of WG27

Progress of revision of ISO 14687

**ISO/TC197/Plenary Meeting
Dec.8, 2016 in Egmond aan Zee, Netherlands**

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Task assigned to WG27 (TG1 and TG2)

1. Consolidate the existing three standards on hydrogen quality: 14687-1, 14687-2 and 14687-3, into one document, incorporating the revision for PEM FCV and PEM stationary appliances.

**NOTE: 14687-2(2012) PEM FC for vehicle applications
14687-3(2014) PEM FC for stationary appliances
14687-1(1999) All applications except PEM FCV and
PEM stationary appliances**

2. Revision of the standards to respond to the improvement of technologies in hydrogen, FC and analytical method

3. Work divided

- TG1: PEM FC for vehicle applications**
- TG2: PEM FC for stationary appliances**



Revision of ISO14687

1. New Project registered:

- 2015.10.15

2. Meetings Held:

- 1st Meeting in Torrance USA(Dec. 2, 2015)
- 2nd Meeting in Fukuoka JAPAN(Feb. 23, 2016)
- 3rd Meeting in Munich Germany (June 29 & 30, 2016)
- 4th Meeting in Amsterdam, Netherlands (Dec. 6, 2016)

3. Progress made

- Revised WD (merged) circulated on Nov. 7, 2016
- Reached the consensus on the scope change
- WG 27 TG1 and TG2 will cover the revision for PEM FCV and PEM FC stationary applications respectively
- Itemized constituents and their specifications to be revised
- CD is going to be registered based on the consensus at the 4th meeting



The proposal of the scope change

Modified scope (for 2016 Plenary Meeting)

(Basically back to the scope of ISO14687:1999)

This International Standard specifies the quality characteristics of hydrogen fuel in order to assure uniformity of the hydrogen product as produced and distributed for utilization **in vehicular and stationary applications.**

This International Standard applies to all modes of transportation and hydrogen fuelling applications (ground, water, air and space).

The original scope proposed in the NWIP

This International Standard specifies the quality characteristics of gaseous and liquid hydrogen fuel for the following applications:

- 1. All applications except PEM fuel cells**
- 2. PEM fuel cell applications for road vehicles;**
- 3. PEM fuel cell applications for stationary appliances.**



Milestones for publishing ISO 14687

Target dates

	PEM for Road Vehicle Application	PEM for Stationary Appliances	H2 for Oher Application
2015-10-15	New Project registered		
2016-11-07	Revised WD circulated		
2017-02	CD to be registered		
2017-10	DIS to be registered		
2018-04	FDIS to be registered		
2018-10	IS to be published		

Meetings:

- 2015-12-02** : **Kick-off Meeting in Torrance CA, USA**
- 2016-02- 23** : **2nd Meeting in Fukuoka, Japan (TG1)**
- 2016-06-28&29** : **3rd Meeting in Munich, Germany (TG1&2)**
- 2016-12-06** : **4th Meeting in Amsterdam, Netherlands**
- 2017-05-29(TBD)** : **5th Meeting in Korea**



Thank you for your attention