

Status report of the VIAQ (Vehicle Interior Air Quality) Informal Working Group

Report to the 71st GRPE session

Chair: JongSoon Lim, The Republic of Korea

Secretary: Andreas Wehrmeier, OICA

- **VIAQ IWG Meeting since last GRPE**

- **Kick-off VIAQ IWG Meeting**

- Paris, France, 17th March 2015

- **1st VIAQ IWG Meeting**

- Geneva, Switzerland, 10th June 2015

● VIAQ Background

- **VIAQ issue was raised at the initiative from the Republic of KOREA**
- **The proposal was discussed in GRPE and WP.29 in 2013-2014**
- **WP.29 Mandate**(ECE/TRANS/WP.29/1112)
 - AC.3 endorsed the proposed action plan to, in a first stage, collect information, review existing standards and develop recommendations.
- **GRPE Adoption**(ECE/TRANS/WP.29/GRPE/70)
 - GRPE adopted the proposals for terms of reference to the IWG on VIAQ as reproduced in Annex VI of this report.

● **Topics/Issues**

➤ **VIAQ Organization**

- Chair: JongSoon Lim, The Republic of Korea
- Secretary: Andreas Wehrmeier, OICA

➤ **Review of VIAQ Terms of Reference**

- The scope of the work is to develop a recommendation to harmonize test methods of interior air emissions emitted/generated from interior materials

● Work Items

➤ **Collect Information, Exchange Views on VIAQ Existing Standards**

- Introduction of National standards from Korea, China, Russia and international standard (ISO) by CPs
- Comparison of Measurement Methods from OICA

➤ **Work Items**

• **Test Measurement Modes**

Consider on test mode suitable for the interior air emission to proceed with

• **Target Measurement Substances**

Many relevant substances(e.g. VOCs) with regard to Interior air quality

Target measurement substance is required firstly

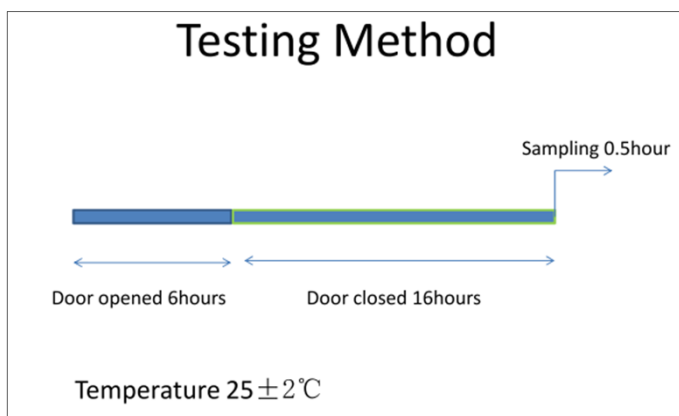
➤ Understanding Current VIAQ Test Methods

Time	Temp stabilize Min 12.hr	Ventilation 30min	Close door 2hr	Sampling 15min
Cabin Temp	$25^{\circ}\text{C} \pm 2^{\circ}\text{C}$			

<KOREA VIAQ Test Method>

Temperature in vehicle cabin Not controlled	Ambient mode:	Parking mode:	Driving mode:
	<ul style="list-style-type: none"> - minimum 8 h - door closed 	<ul style="list-style-type: none"> - door closed - radiators on $400 \text{ W/m}^2 \pm 50 \text{ W/m}^2$	<ul style="list-style-type: none"> - radiators on - door open max. 60 s - fan highest level or air-conditioning regulator on
23 °C	1 h door open	4 h	
	VOC/ carbonyl compounds	H ₂ CO	VOC/ carbonyl compounds
Sampling in vehicle cabin	30 min	30 min	30 min
Back-ground sampling	30 min	30 min	30 min

<ISO 12219-1 VIAQ Test Method>



<CHINA VIAQ Test Method>

**ISSUES CONCERNING AIR QUALITY
INSIDE THE VEHICLE**

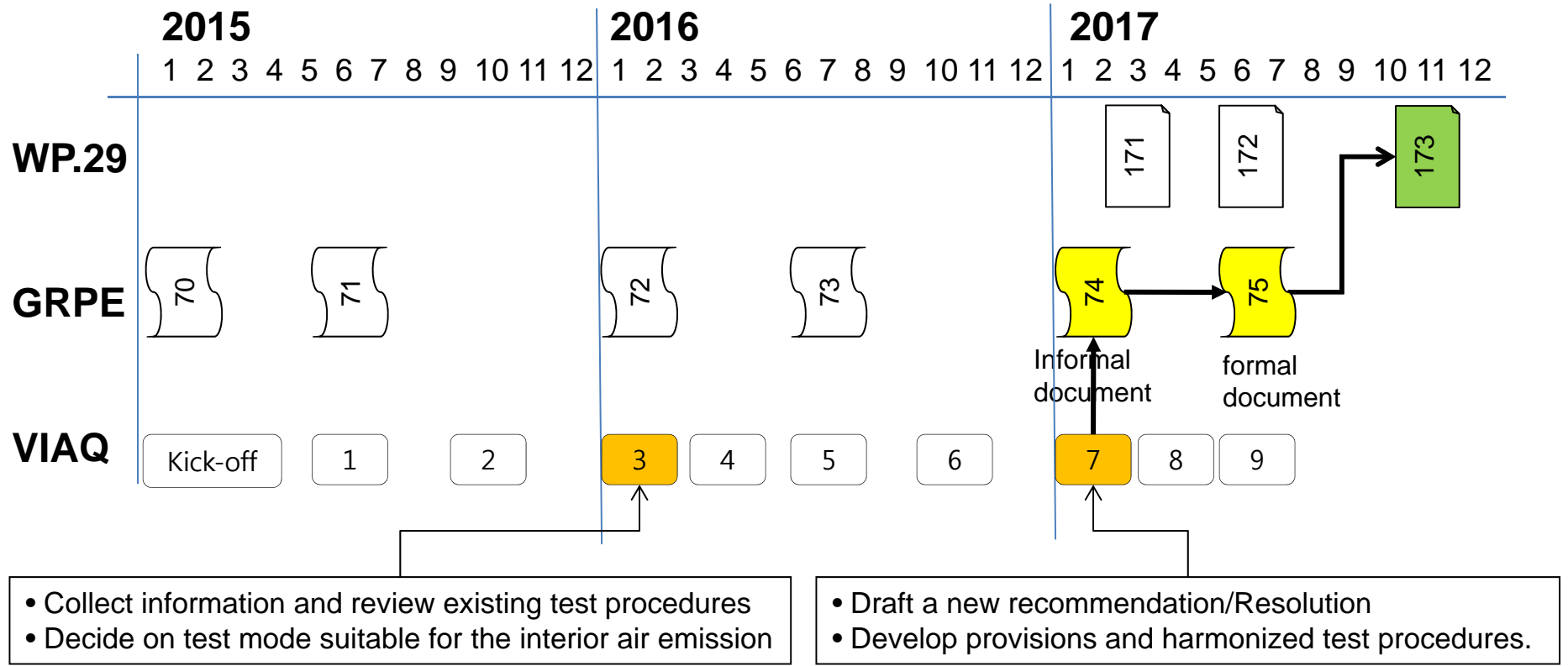
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<Russian VIAQ Test Method>

● Roadmap



- **January 2017** : Present a final draft report as an informal document to GRPE
- **November 2017** : Possible adoption of Recommendation(R.E.3, SR1 or mutual resolution)

- **Next VIAQ IWG Meeting**

- **2nd VIAQ IWG Meeting**

- Paris, France, Week of November 2nd, 2015

- **3rd VIAQ IWG Meeting**

- Geneva, Switzerland, January 2016 during 72nd GRPE
- Half a day requested