



Economic and Social Council

Distr.: General
20 December 2013

Original: English

Economic Commission for Europe

Inland Transport Committee

World Forum for Harmonization of Vehicle Regulations

162nd session

Geneva, 11-14 March 2014

Item 17.10 of the provisional agenda

**Progress on the development of new UN Global Technical Regulations (UN GTRs)
and of amendments to established UN Global Technical Regulations (UN GTRs)**

Gtr No. [15] (Worldwide harmonized Light vehicles Test Procedures – Phase 1(b))

Proposal for the development of amendments to the gtr No. [15] on the Worldwide harmonized Light vehicles Test Procedures (WLTP)

Submitted by the representatives of the European Union and Japan*

The text reproduced below was drafted by the secretariat in agreement with the representatives of the European Union and Japan. It updates a proposal to prolong the mandate of the WLTP informal working group (WP.29-161-14, corresponding to GRPE-67-06) that was considered by the World Forum for Harmonization of Vehicle Regulations (WP.29) in its 161st session (ECE/TRANS/WP.29/1106, para. 102.) and by the Working Party on Pollution and Energy (GRPE) at its sixty-seventh session (ECE/TRANS/WP.29/GRPE/67, para. 8.). It is submitted to WP.29 and to the Administrative Committee AC.3 for consideration.

* In accordance with the programme of work of the Inland Transport Committee for 2012–2016 (ECE/TRANS/224, para. 94 and ECE/TRANS/2012/12, programme activity 02.4), the World Forum will develop, harmonize and update Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.

GE.13-26637



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I. Background

1. On 23 August 2013, the informal group for the development of the Worldwide harmonized Light vehicles Test Procedures (WLTP) submitted a draft text of the WLTP global technical regulation (gtr) (ECE/TRANS/WP.29/GRPE/2013/13) to the Working Party on Pollution and Energy (GRPE) of the World Forum for Harmonization of Vehicle Regulations (WP.29).
2. ECE/TRANS/WP.29/GRPE/2013/13, as amended by GRPE-67-04-Rev.1, was adopted by GRPE at its sixty-seventh session, held on 14 November 2013. WP.29 will consider the resulting text in March 2014 (ECE/TRANS/WP.29/2014/27).
3. The text adopted by GRPE reflects the work concerning "Phase 1a" draft of the WLTP gtr development. This covers the development of a globally harmonised test cycle for light duty vehicles and the associated test procedures, as outlined in the official document ECE/TRANS/WP.29/2009/131 (Phase I of the WLTP process). The preparation of this text followed a four months extension of the work and required the additional session of GRPE in November 2013, as recognized by WP.29 in its 156th session (March 2012). The current mandate of the WLTP informal working group ended with the submission of this draft to GRPE.

II. Proposal, draft roadmap and extension of the mandate of the WLTP informal working group

4. The current WLTP gtr draft describes a complete certification test cycle. Nevertheless, the "Phase 1a" draft of the WLTP gtr does not include a number of technical elements that could significantly improve the application of this regulatory text. An extension of the mandate for the WLTP informal working group, sponsored by the European Union and Japan, shall tackle the development of these technical elements. This task should be labelled as "Phase 1b" and is foreseen to last until 2016.
5. A road map and a possible substructure of the WLTP informal working group are shown in Figure 1. Figure 2 contains an indicative list of issues that will be addressed during "Phase 1b".
6. In addition to the tasks explicitly mentioned in Figure 2, the WLTP informal working group shall also address, during its mandate period, any other task that is deemed relevant for the development of the globally harmonized test cycle for light duty vehicles and the associated test procedures. The WLTP informal working group may also choose its internal structure and management, such as Chairs and secretaries, according to its needs.

Figure 1
WLTP informal working group: organization

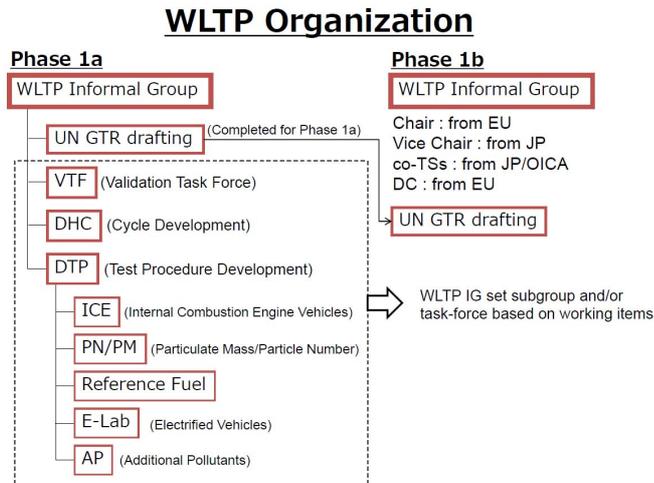


Figure 2
WLTP "Phase 1b": indicative roadmap

Items	2014				2015				2016			
	1. Qtr	2. Qtr	3. Qtr	4. Qtr	1. Qtr	2. Qtr	3. Qtr	4. Qtr	1. Qtr	2. Qtr	3. Qtr	4. Qtr
Phase 1b Work	→											
WLTP informal working group and gtr drafting	→											
Documents to GRPE/WP.29	informal documents → working documents → working documents											
	◆71st GRPE → ◆72nd GRPE → ◆169th WP.29											
(a) LabProICE :												
(i) normalization methods, speed trace index												
(ii) energy economy rating and absolute speed change rating for speed trace violations	←→											
(iii) wind tunnel as alternative method for road load determination	←→											
(iv) supplemental test with representative regional temperature and soak period												
(b) EV-HEV :												
(i) calculation method of each phase range for pure electric vehicles (PEVs)												
(ii) shortened test procedure for PEV range test												
(iii) combined CO2 (fuel consumption) of each phase for off-vehicle charging hybrid electric vehicles (OVC-HEVs)												
(iv) hybrid Electric Vehicle (HEV)/PEV power and maximum speed												
(v) combined test approach for OVC-HEVs and PEVs	←→											
(vi) fuel cell vehicles												
(vii) utility factors												
(viii) preconditioning												
(ix) predominant mode												
(c) APM :	←→											
measurement method for ammonia, ethanol and aldehydes	←→											
(d) DHC :												
(i) speed violation criteria												
(ii) further downscaling in wide open throttle (WOT) operation	←→											
(iii) sailing and gear shifting												
(e) all ;	←→											
others (further improvement of gtr)	←→											
	2014				2015				2016			