Request for Confirmation by WLTP IWG on correction of corrigendum to GTR 19 Amend.1 (EVAP)

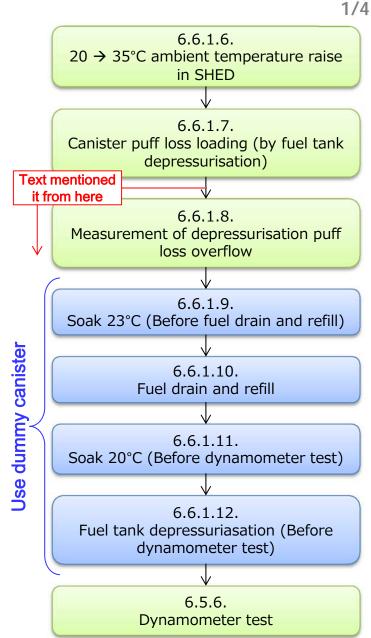
Apr., 2018

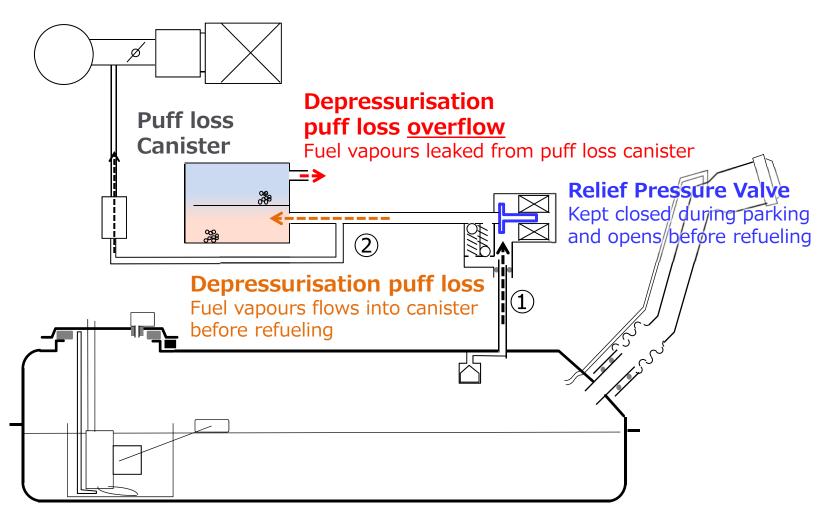
Mayumi "Sophie" Morimoto (JASIC)

Reference errors found after Jan. GRPE approval

■ Reference errors

- Annex 1 Paragraph 6.6.1.7.2. Timing of a dummy canister installation after puff loss loading to the canister(s).
 - × Before measurement of depressurisation puff loss overflow
 - After measurement of depressurisation puff loss overflow
- Annex 1 Paragraph 6.6.1.8.2.
 - Paragraphs referenced to explain the 20 \rightarrow 35°C ambient temp. raise in SHED
 - × Annex 1 Paragraph 6.6.1.7.2.
 - Annex 1 Paragraph 6.6.1.6.
 - Paragraphs referenced to explain the end of Canister puff loss loading
 - × Annex 1 Paragraph 6.6.1.6.
 - Annex 1 Paragraph 6.6.1.7.2.





- 1 No fuel vapour flow into the canister during parking because the control valve kept closed.
- ② Fuel vapour into the puff loss canister only before refueling. (The relief pressure valve opens when the refueling event starts, then closes after tank pressure goes down.)

Copy & paste error found after Jan. GRPE approval

■ Copy & paste error

missing)

- Annex 1 Paragraph 7.1.
 Hydrogen to carbon ratio (H/C) used for calculating test results of hot soak losses. (H/C shall be different depending on temperature)
- Background:
 This equation and factors were first copy & pasted from UNR-83-07 for calculation of puff loss overflow measurement in SHED. (only needed 2.33)
 However, it was moved to Annex 1 Paragraph 7.1. to use in all calculation and avoid reference to UNR 83-07. (not knowing 2.20 for hot soak losses is

[Calculation of evaporative test results]

$$M_{HC} = k \times V \times \left(\frac{C_{HCf} \times P_f}{T_f} - \frac{C_{HCi} \times P_i}{T_i}\right) + M_{HC,out} - M_{HC,in}$$

$$k = 1.2 \times 10^{-4} \times (12 + \text{H/C}), \text{ in } (g \times \text{K/(m}^3 \times \text{kPa)});$$

- × H/C is the hydrogen to carbon ratio and has the constant value of 2.33;
- H/C is the hydrogen to carbon;
 - H/C is taken to be 2.33 for puff loss overflow measurement in SHED and diurnal test losses;
 - H/C is taken to be 2.20 for hot soak losses;

Schedule & Request for Confirmation

• The correction of corrigendum is already sent to June GRPE/WP29 as proposal by EC and Japan. (ECE/TRANS/WP.29/2018/73/Add.1)

	2018											
	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep			
WP29						WP2 ⁶	Get GTR	Get approval of GTR 19 Amend. 1				
GRPE	11-12 GRPE approved GTR 19 Amend. 1 Fragment of Corrigendum Get approval of Corrigendum Get approval of Corrigendum											
IWG	9 WLTP #20			17-20 WLTP #22								
土		Discussion By e-mail		TODAY								

Would like to ask for confirmation of these errors by WLTP IWG.

Thank you very much for your attention!