

Transmitted by the Chairman of TF on RW
(to be presented by the expert from Switzerland)

**Informal document GRSG-116-14
(116th GRSG, 1-5 April 2019
agenda item 7)**

based on Informal Document GRB-69-20 69th
GRB, January 22-25, 2019 Agenda item 8

Status Report to GRB #69

Task Force on Reverse Warning issues

Meeting

4th Meeting : December 11-12, 2018 – Brussels

Small group drafting meeting

5th Meeting : January 21-22, 2019 – Geneva

Task force meeting

4th meeting participants

Contracting parties : Japan, Germany, EC

NGOs, etc : OICA, GREWUS (Guest)

5th meeting participants

Contracting parties : Japan, Germany, Turkey, Netherlands

China, Korea, Russia, France, EC

NGOs, etc : OICA, CLEPA, GREWUS (Guest)

Status of discussion

The new regulation is discussed based on R28.

Scope

- Scope of new regulation is M3, N3 and N2.
- Japan proposed M2 should be limited to above 3.5 t vehicle, because vehicle type is different between under 3.5 t and above 3.5 t.
- The Contracting Parties present at the meeting could not reach a common agreement on this subject. Therefore, the discussion about this matter will be continued based on documents. M2 (under 3.5t) is still in square brackets

Definition of vehicle type

- Definition of vehicle type was corrected in line with reverse warning sound. The discussion about this matter has to be continued.

Status of discussion

Limit values of the reverse warning sound

- We have to define the frame of limit values (Composition of limit values table).
- Japan presented technical data regarding limit values (TFRA-03-04).
- All limit values are still in square brackets. The discussion about this matter should be continued.

Test method

- Basically, the current test method proposed in new regulation is based on R28.
- We are considering test method of small volume warning sound, because it is difficult to keep enough difference between target sound and BGN.
- In addition, new test method to be considered for automatic volume adjustable system.

Status of discussion

Sound emitting count per minutes

- Continuous sound like horn should be excluded. The reverse warning sound device which emits sound rarely (i.e. 1 count/min) should be excluded because it is used as alternative method of "Pause switch".

Pause switch

- Wording about "pause switch" was proposed by Japan based on R-138.
- "Pause switch" should be permitted when another safety device (i.e. rear camera) is active.
- We are considering relationship between reverse warning sound device and other safety devices.

Status of discussion

Requirements of acoustic chamber

- As a results of the small group meeting, the requirements for an acoustic chamber were same as in R28 (horn).
- After the small drafting meeting, it was clarified that Japanese type approval authority does not have an acoustic chamber. It is necessary to know other countries' situation.

Duration test

- Japan proposed duration test is not required in this regulation. Germany and OICA didn't agree with it. The discussion about this matter has to be continued.

Required data to the new regulation

TF group confirmed following data and ideas are required.

Frame of limit value

- If limit value depends on sound type,
 - Definition of each sound type
 - Test data for tonal sound
 - Test data for broad band sound
 - Test data for 1/3 oct. band sound
 - Test method for low sound level warning sound
 - The Background Noise (BGN) should be more than 3-10 dBA below the target sound
 - Test method for automatic adjustable device has to be defined
- All of the test methods should be realistic.

Schedule

May 31, 2019

Technical data submission deadline

June 26-28, 2019

6th meeting : Small group drafting and data analyzing meeting
@ Brussels (TBC)

July 1-2, 2019

7th meeting : Task Force meeting @ Paris

September, 2019

GRBP : Explain point of new regulation (Informal document)

October, 2019

Submit working document to GRBP

January, 2020

GRBP : Discussion working document at GRBP

Thank you for your kind attention!