

INFORMAL GROUP WORKING RESULT

PVGTR 2005-3d

Ranking of **Importance (Imp.):** 1 – 5 (5 = most important)

Ranking of **Difficulty (Diff.):** 1 – 5 (5 = most difficult)

Reason for **Difficulty (Diff.):** C Self-Certification/Type-Approval issue

Reason of Option

Co; Cost impact

Ph; Different Philosophy

Ce; Different Certification System

TBD More discussion necessary

(C-1: requiring full details of test procedure)

(C-2: Requirements placed in a separate TA Annex)

T Timing issue

P Different philosophy

Te Technical issue

[OPTIONAL PART of the PVGTR means a package of requirements which can be mandated as a whole at the discretion of an Administrative Authority.]

ISSUES STILL IN DISCUSSION	TIMING	Imp.	Diff.	Opt' (Candidate)
1) RBS as part of the Service Braking system. Definition of categories A and B Tests in Neutral - Compensation needed Disconnection on RGB assisted braking Vehicle speed for Heating proc. and hot test	Japan. Proposal was explained in Aug. 04, Should have been discussed in December 2004 but this has really not started yet! Decision by Dec 2005?	5	5 P,Te	TBD
2) Full Power System – Pressure fall. 50% or Number of applications remaining or delete?	Discussed in December 2004 & June 2005 No. of applications left preferred June Decision not possible, to be decided Sept. 2005	3	3 P	TBD
3) Terminology, Definitions Combined list in PVGTRbraking-wip.e	Discussion to be continued where necessary.	2	2 Te	
4) GTR Draft Document These are updated after each meeting to reflect the discussion decisions with issue letter updated	PVGTR2005-1c/2005-2c to be discussed in detail at Sept 2005 meeting, Some items discussed and amendments made. Decision December ?			

ISSUES DECIDED by PVGTR informal group		Imp.	Diff.	Opt' (candidate)
5) Test Procedures , Integrated or associated?	integrated, see doc. PVGTRAx1-wip	5	3 C-1	
6) Parking brake – friction type ?	Not required, see doc. PVGTRswg2-1a	5	2 Te	
7) Wheel Locking Order	Defined on two different surfaces	3	3 Te	
8) Parking Brake holding test	Initial brake temperature: 65 – 100°C	2	1 Te	
9) Definition of v_{max}	Use FMVSS 135 definition	1	1 Te	
10) Tests – Steering correction	Allowed on each stop as in FMVSS 135	1	1 Te	
11) Hot Performance: No of Stops	Perform 2 tests (only one may count)	1	2 Te	

12) EMC requirement,	No, but to be set out in the introduction	5	5 P	
13) Braking distribution (for non-ABS vehicles)	Calculation where this can be accepted by certification process. Technical Service can therefore omit the wheel locking order test	5	5 C-2	Ce
14) Annex CEL	In the text as an option.	5	5	Ce
15) Warning signal function test, switch as alternative to automatic lamp check allowed?	No!	2	2	
16) Special requirements for single circuit needed ?	No!	1	4 P	
17) Burnish/Bedding of linings Option is now incorporated in PVGTR 2005-2 Section 5.2.1.	Agreed Sept 04 Wheel locking removed from the PVGTR 2005-2b text			Ce
18) Parking brake - dynamic requirement?	Proposal by SWG that this is not required. see doc. PVGTRswg2-1a Agreed Jan. 05: delete Annex 3, 2.3.6, but keep 5.2.2.4	5	2 P	
19) Foot control only for service brake (or alternatives possible yes with restrictions.)	Agreed Jan. 05: R13-H text used (limited alternatives are possible)			
20) Type 0 test practice Pedal force depends on whether ABS is in control. ABS-Max possible. Non ABS-Max level avoiding skidding. ABS vehicles will make the Hot performance test with 500N pedal force even though ABS cycling may be produced.	Agreed Jan. 05 but recinded in Apr. New conditions developed and new cold ref. test added. GTR.text updated and Hot test included Agreed April 2005 Rediscussed June 2005: Cold performance reference test deleted. New proposal for hot performance requirements expected for Sep. 2005			
22) Display of warning signals	Proposal by SWG see “PVGTR2004-17eRev2” PVGTR 2005-1b update GRSG-GTR Cross-referred 2 nd warning signal (yellow) accepted by US Decided April 2005	2	P	or Ph (if not agreed in GRSG)
23) Reservoir Fluid – design and volume?	Compromise proposal by EW discussed in April 05 Agreed April 2005	2	5 Te	
24) Reservoir Labelling	Compromise proposal by EW discussed in April 05 Decided April 2005	2	5 P	
25) Stopping distance / MFDD (both could be used as in PVGTRtest-wipf)	Compliance with both but only if marginal, should both be measured Decided April 05	5	5 P	
26) PFC of test surface - requirement 0,9 max? Allowance made for lower levels of adhesion.	Briefly discussed in Dec. 2004 See condition in 5.1.3.4. Agreed at April 2005	5	4 C-1	

33) EBS requirement for service brake Final acceptance still needed from USA	Updated proposal of SWG: Keep R13-H text with the following changes: <ul style="list-style-type: none"> • Delete par. 5.2.8.1 and 5.2.8.2 (compensation) Agreed June 2005 • Change 5.2.20.1 to secondary performance Agreed Jan. 05 , confirmed June 2005 • Delete 5.2.20.2 Agreed Jan. 05 • calculation alternative for 5.2.20.6 now an option in the text 4.3.18.5. Agreed June 2005 • Delete 5.2.20.7 suggested Agreed June 2005 S6.3.12 of FMVSS 135 (Elect. actuated braking) clause added in 5.2.7.3.2. Agreed June 2005.	5	5 T	
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ISSUES STILL TO BE DECIDED / CONFIRMED by PVGTR informal group	TIMING	Imp.	Diff.	Opt' (candidate)
27) Static parking braking performance with trailer yes/no	Majority wants this safety requirement, US position is no. Discussed in Jan/Apr/ June 2005 , Compromise allows additional use of in-gear parking or automatic transmission set in PARK. Decision by September 2005	3	5 P	or Co (if not agreed)
28) EPB requirement for parking brake	Agreement looked possible in Jan. 05 R13-H paragraph 5.2.19.2 not to be deleted Decision by June 2005 not possible, to be decided Sept. 2005	5	5 T	TBD

29) ABS - Performance definition	<p>“Adhesion utilisation” requirements [unladen] on low μ surface as in R13-H will now be required as an “optional” Appendix</p> <p>Requirements on stability assessment as in PVGTR2005-2b remain for high, low and split μ and transitions. Design requirements (4S/3M) removed.</p> <p>Almost decided June 2005, after OPTION accepted. Only “unladen” in adhesion utilisation test still open, to be decided Sept. 2005</p>	5	5 Te	<p>Ce</p> <p>adhesion utilisation test ([unladen] on low adhesion only) accepted as an option</p>
30) Unbraked trailer – service braking performance specified: yes/no	<p>Annex 3, par. 2.1.2. calculation will be needed in GTR US to consider further if VM,s calculation will be an acceptable alternative to test. Calculation put into 5.2.7.4.4. of PVGTR 2005-2c.</p> <p>Decision by September 2005</p>			<p>or Co (if not agreed)</p>
31) Update of provisions for PTI yes/no?	<p>Possible option depending on position of USA. No decision June 2005, to be decided Sept. 2005</p>	5	4 P	<p>TBD (Ce ?)</p>
32) Stop lamp illumination: to be included in GTR? yes/no?	<p>April 2005 decision held up by Selective braking GRRF discussion needed? Discussed June 2005, no decision.</p>	1	4 P	<p>TBD (Ce?)</p>