

Minutes of 14th meeting of
the Informal Group on Frontal Impact

OICA office
4 RUE DE BERRI
75008 PARIS

Wednesday, 7th September 2011

1. Welcome

The chairman Pierre Castaing opened the meeting and welcomed the delegates. The target of today's meeting is basically to develop new terms of reference for the group.

2. Roll call

3. Adoption of the agenda

Doc. INF GR / FI-14-01

The Agenda was adopted.

4. Adoption of the Minutes of last Meeting

Doc. INF GR / FI-13-06

The minutes from the 13th meeting has been adopted.

5. Discussion on the modification of the existing Frontal Impact Regulation 94

Doc. INF GR / FI-14-02

Presentation by Germany

Germany (Mr. Damm) proposed to modify the frontal impact regulation R94 in two steps:

Step 1 (short term till 2014):

- Introduction of full width test based on the outcome of FIMCAR
- Introduction of criteria or procedure for geometric alignment of front structures
- Introduction of new thorax injury prediction tools if appropriate
- Introduction of 5th female dummy in the full width test if appropriate

Step 2 (long term starting in 2014)

- Development of a GTR on Frontal Impact
- Introduction of new dummy family (Thor 50th and 5th)
- Introduction of new dummy performance criteria
- Review of offset test procedure

A short discussion started on the proposal. Mr. Pott asked if Germany discussed the proposal with other contracting parties (especially with those from the 98-agreement). Mr. Damm answered that there were

some discussions with the US and reported about a principle interest in the GTR.

6. Definition of the future Terms of Reference

Doc. INF GR / FI-14-03

Doc. INF GR / FI-14-04

The group finalized the Terms of Reference which will be delivered to GRSP for further discussion during their next meeting in December 2011. The TOR have been adopted as follows:

The informal group shall consider the updating of the current R94 regulation with particular attention to the protection of older occupants, female occupants and also focus on optimization of vehicles' structural interaction to improve self protection and partner protection.

The informal group will make use of existing tools, considering and developing the results of ongoing research and validation programs.

In particular the group expects to make use of results from:

FIMCAR with regard to set of test procedure (target end of 2012)

THORAX with regard to thorax injury prediction tools (target mid 2012)

An expert group to validate the use of thorax injury prediction tools (DEQ, THMPR, RibEye) for the H3 (target end of 2012)

An expert group to conduct an impact assessment until the end of 2013

As a first step with those results the group will propose a final draft for an amended R94 to GRSP by May of 2014.

A second step to improve frontal impact regulation shall be envisaged preferably by means of a GTR, starting at least mid of 2014, depending on the availability and the progress of the THOR NT with input of the research project THORAX.

The group encourages collaboration on the development of a harmonized THOR dummy for that second step.

A "grandfathering" clause could be used for the second phase, so that the new rules may apply only to completely new vehicle designs.

The group asks GRSP to seek consent of a mandate until the end of 2014.

7. AOB

8. Next Meetings

18th of April 2012, Paris, OICA office, Rue de Berri (10:00 – 17:00 full day)

Document Number	Title	Origin
14.5	Draft Minutes of the 14th meeting	Secretary
14.4	Agreed New ToR of the IWG R94	Secretary
14.3	GRSP Status Report December 2012	Chairman
14.2	UN Regulation Occupant Protection in the event of a frontal impact	Germany
14.1	Agenda of the 14th Meeting of the informal group on frontal impact	Secretary
13.7	Frontal Impact Cost-Benefit and Potential Options	EU/TRL
13.6	Minutes of the 13th meeting	Secretary
13.5	Draft new ToR for IWG R94	IWG R94
13.4	GRSP Status Report May 2011	Chairman
13.3	Proposal to structure RESS safety requirements	RESS group
13.2	RESS request to IWG R94	RESS group
13.1	Agenda of the 13th Meeting of the informal group on frontal impact	Secretary
12.6	Draft Minutes of the 12 th Meeting of the informal group on frontal impact	Secretary
12.5	Equivalent Deflection – an improved chest criterion	LAB
12.4*	THOR NT Status Report	NHTSA
12.3	FIMCAR Full Width Test Status Report	TRL/FIMCAR
12.2	FIMCAR General Status Report	VTI/FIMCAR
12.1	Agenda of the 12 th Meeting of the informal group on frontal impact	Secretary
11.6	Draft Minutes of the 11 th Meeting of the informal group on frontal impact	Secretary
11.5	Stapp Paper 2003 on new thoracic injury criterion	Peugeot
11.4	Schedule for IWG R94	Group
11.3	GRSP Informal Group Frontal Impact_Timelines	OBrian
11.2	FIMCAR Workshop 19/1/11 Summary	TUB

Annex 3 –Documents list

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11.1	Agenda of the 11 th Meeting of the informal group on frontal impact	Secretary
10.9	Draft Minutes of the 10 th Meeting of the informal group on frontal impact	Secretary
10.8	FIMCAR Status of Full Width Test Metric	BASt
10.7	FIMCAR Accident Analysis Findings	TRL
10.6	FIMCAR General Strategy	TUB
10.5	NTSEL Benefit analysis for a Full Width Test.	NTSEL
10.4	EC Accident Analysis – Final Report	TRL
10.3	EC Accident Analysis – Summary Presentation	TRL
10.2	GRSP IWG R94 Status Report May 2010	Chairman
10.1	Agenda of the 10 th Meeting of the informal group on frontal impact	Chairman
9.8	Draft Minutes of the 9 th Meeting of the informal group on frontal impact	Secretary
9.7	Japanese benefit analysis for Full Widt Test – provisional	Japan
9.6	FIMCAR UK accident analysis headlines	TRL
9.5	FIMCAR presentation for GRSP IWG R94	TUB
9.4	COVER and THORAX work related to frontal impacts	TRL
9.3	EC Accident Analysis (provisional)	TRL
9.2	GRSP IWG R94 Draft Status Report May 2010	Chairman
9.1	Agenda of the 9 th Meeting of the informal group on frontal impact	Chairman
8.5	Minutes of the 8 th Meeting of the informal group on frontal impact	Secretary
8.4	Extension of French accident analysis to European Scope	France
8.3	Future steps – important points for R94 change	Secretary
8.2	IWG R94's GRSP position after December 2009 session	Chairman

8.1	Agenda of the 8 th Meeting of the informal group on frontal impact	Chairman
7.7	Minutes of the 7 th Meeting of the informal group on frontal impact	Secretary
7.6	Presentation on ideas to amend R94	Germany
7.5	Presentation on possibilities to avoid misuse of the PDB	France
7.4	Presentation to review open questions	Sweden
7.3	Presentation on the first results of a frontal impact study by order of the EU Commission	UK
7.2	Presentation on updated German accident analysis	Germany
7.1	Agenda of the 7 th Meeting of the informal group on frontal impact	Chairman
6.6	Draft Minutes of the 6 th Meeting of the informal group on frontal impact	Secretary
6.5	Update work on reference collision	Sweden
6.4	Presentation on MPDB problems	France
6.3	Presentation on frontal impact issues	UK
6.2	Report on frontal impact issues	EU-Commission
6.1	Agenda of the 6 th Meeting of the informal group on frontal impact	Chairman
5.10	Minutes of the 5 th Meeting of the informal group on frontal impact	Chairman
5.9	dummies-position in Japanese tests	Japan
5.8	joint-researches-USA-France-presentation	France/USA
5.7	French-answer-to-R94amendement-issues	France
5.6	R94-METHODOLOGIE-BENEFITS-May-2009	France
5.5	PDB Research in JPN Mini-Cars & Minivan & PC	Japan
5.4	Swedish-Accident Data Review	VTI

5.3	French-accident-data-analysis	LAB
5.2	German-accident-data-analysis	BASt
5.1	Agenda of the 5 th Meeting of the informal group on frontal impact	Chairman
4.6	Final minutes of the 4 th Meeting of the informal group on frontal impact	Secretary
4.5	Contract with EC: Provision of information for the development of frontal impact legislation	TRL
4.4	Performance as Test Procedures of the PDB and ODB Tests for the Light and Heavy Cars	Japan
4.3	Injuries Reported in Frontal Impacts in Swedish Accident Data	VTI
4.2	Work progress regarding Self-Protection and Partner-Protection	LAB
4.1	Agenda of the 4 th Meeting of the informal group on frontal impact	Chairman
3.12	Draft minutes of the 3 rd Meeting of the informal group on frontal impact	Secretary
3.11	PDB research in Japan	Japan
3.10	Mobile Progressive Deformable Barrier and Mobile Rigid Barrier Tests	BASt
3.09	Detailed discussion of the VDA position on the proposal for draft amendments to UN-ECE R94	VDA
3.08	Influence of the PDB on the pulse	France
3.07	Additional research on PDB and MPDB	Netherlands
3.06	Evolution of mortality rate and fatal injury frequencies in Frontal impact since 1990.	France
3.05	APROSYS - Development of a Full Width Frontal Impact Test for Europe	UK
3.04	Single Vehicle Collisions - Extracts from the RISER project.	Sweden
3.03	Accident analysis - Work progress regarding Self-Protection V2	LAB
3.02	Evaluation of the Effect of the Implemented Full-Width Frontal Impact Standard on Reduction of Fatalities in Japan	Japan
3.01	Agenda of the 3 rd Meeting of the informal group on frontal impact	Chairman

Annex 3 –Documents list

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2.09	Minutes of the 2 nd Meeting of the informal group on frontal impact	Chairman
2.08	VDA position on the proposal for the draft amendments to Regulation N° 94	VDA
2.07	Japan research on Regulation N°94 amendments	Japan
2.06	Outstanding issues with PDB test	UK
2.05	Accident analysis - Work progress regarding Self-Protection V1	LAB
2.04	First finding of additional research	Netherlands
2.03	UNECE Reg. 94 – Past, Present & Future	Netherlands
2.02	Issue to be resolved in evaluation of Regulation N°94 amendments	Secretary/Sweden
2.01	Agenda of the 2 nd Meeting of the informal group on frontal impact	Chairman
1.04	Draft Minutes of the 1 st Meeting of the informal group on frontal impact	Secretary
1.03	Agenda of the 1 st Meeting of the informal group on frontal impact	Chairman
1.02	Proposal of rules of procedure and terms of reference	Chairman
1.01	ECE/TRANS/WP.29/GRSP/2007/17 – Proposal for draft amendments	France