#### INF GR /FI-13-06 draft

# Minutes of 13th meeting of the Informal Group on Frontal Impact

## OICA office 4 RUE DE BERRI 75008 PARIS

Monday, 27th June 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-13-01

The Agenda was adopted after adding a bullet point for the request from the RESS group

## 4. Adoption of the Minutes of last Meeting

Doc. INF GR / FI-12-06

The minutes from the  $12^{\text{th}}$  meeting has been adopted without amendments.

## 5. Request of RESS group

Doc. INF GR / FI-13-02

Doc. INF GR / FI-13-03

The RESS group raised some questions to the IWG R94.

The IWG R94 discussed that the scope of the tests shall not be changed. It might however be useful to check the exemptions, which some regulations allow for. E.g. R95 has exemptions for cars with R point > 700mm which are based on occupant protection arguments, but which might be misleading with regard to fuel system integrity. It might be useful to split the regulation and add a fuel integrity regulation, like the ECE R17 has been added for the seat component.

It was decided to recommend not changing the scope of current regulations ECE R12, R94 and R95. For those vehicles which do not have to fulfil R94, ECE R12 will be a minimum requirement. Vehicles which fulfil regulations ECE R94 and R95 do not necessarily need to fulfil the component tests. For component tests a type dependent R17 pulse shall be used, like it is shown in the document of the RESS group RESS03-03.e.pdf, or document FI-13-03 respectively.

## INF GR /FI-13-06\_draft

## 6. Future terms of reference

Doc. INF GR / FI-13-04

Doc. INF GR / FI-13-05

The group discussed the next steps based on the scenarios shown in document FI-13-04 during the May GRSP session by the chairman of IWG R94. It was agreed that the final step should be the introduction of the THOR dummy into the regulation. However, taking into account that mid-term improvements in particular for vulnerable occupants shall be reached, a modified H3 – considering options like THMPR, RibEye - version with improved criteria like DEQ could be used. It was agreed that an expert group shall consider and suggest such possibilities. It was furthermore suggested that the THORAX project shall also evaluate the application of such modifications.

A document of new terms of reference has been produced – document FI-13-05 - and has been approved so far.

## **7. AOB**

-

## 8. Next Meetings

 $7^{\text{th}}$  of September 2011, Paris, OICA office, Rue de Berri (10:00 – 17:00 full day)

Action Number	Action	Target Date	Action By	Comp Date
3.				
3.1. Amend the minute of the first meeting		09/03/10	Secretary	09/03/10
3.2. Am	end the minute of the second meeting	09/03/10	Secretary	09/03/10
	cument on German accident analysis: for March eting	09/03/10	Germany	postponed
3.4. Doc	cument on French accident analysis: more detailed	09/03/10	France	09/03/10
3.5. Inju	ry mechanism (thorax injury)	09/03/10	Sweden	09/03/10
3.6. Tho	erax Injury frequency	09/03/10	All	postponed
3.7. Upo	late of EU project SARAC I&II	09/03/10	Germany	postponed
3.8. Inpi	ut from VC-Compat	09/03/10	Sweden	postponed
	S Calculation method =>Put the software on the B web site.	09/03/10	France	09/03/10
3.10.	PDB test result on heavy weight cars	09/03/10	Japan	09/03/10
3.11.	Update the Swedish document	09/03/10	Secretary	09/03/10
3.12.	VDA to present Document FI_03-09	09/03/10	VDA	09/03/10
3.13. step	Input open questions, what is missing, next	09/03/10	All	open
4.				
	cument on German accident analysis: for May	25/05/09	BASt	25/05/09
	cument on French accident analysis: more detailed May meeting	25/05/09	France	25/05/09
	. Eliminate the older cars	25/05/09	France	25/05/09
4.2.2	2. Check if there are 30 people also outside the car for the partner protection.	25/05/09	France	25/05/09
4.2.3	3. Compare the fatality rate with the current two categories (single car and car-car)	25/05/09	France	25/05/09
	orax injury frequency :report similar data than Doc 03-06	25/05/09	All	
4.4. Tho	orax injury frequency: update data from EU ject SARAC I&II	25/05/09	Germany	closed
4.5. Res	ults on car-car tests and explain the higher senger loadings and the barrier calculation.	25/05/09	Japan	
4.6. UK	, Nl, Japan are asked to prepare a position on the A presentation	25/05/09	All	open
4.7. Am	4.7. Amend Document FI_03-09 to focus on frontal 25/05/09 VDA			

Annex 2 – Action list

Action Number	Action	Target Date	Action By	Comp Date
	4.8. Present the methodology for PDB introduction in the regulation.		France	25/05/09
5.				
_	pose solutions to solve the problem of car to car dent	15/09/09	All	
	similar exercise than Doc. INF GR / FI-05-04 bosed by Sweden	15/09/09	All	
6.				
6.1. Exte	ension of German Accident Analysis	7/12/09	BASt	7/12/09
6.2. Exte	ension of French Accident Analysis	7/12/09	LAB	postponed
6.3. Eur	opean Accident Analysis (PART 1)	7/12/09	TRL	7/12/09
6.4. Inpu	ut from Accident Analysis done for EU-Project	7/12/09	TRL/BASt	postponed
	erence Collision Data based on Real World idents	7/12/09	BASt	open
6.6. Rev	iew Doc. INF GR / FI-05-07 presented by France	7/12/09	ALL	7/12/09
7.				
	anese benefit analysis for a Full Width Test for rch 2010 meeting	04/03/10	Japan	postponed
7.2. Exte	ension of French Accident Analysis	04/03/10	France	04/03/10
Eure	opean Accident Analysis on behalf of the opean Commission (PART 2)	04/03/10	TRL	postponed
	at from Accident Analysis done for EU-Project ORAX	04/03/10	TRL/BASt	postponed
	idents	04/03/10	BASt	open
7.6. Tim	ne schedule	04/03/10	ALL	04/03/10
8.				
8.1. Japa	anese benefit analysis for a Full Width Test	27/04/10	Japan	14/10/10
_	er on the groups conclusions to present in May 0 to GRSP	27/04/10	Chairman	14/10/10
Eure	opean Accident Analysis on behalf of the opean Commission (PART 2)	27/04/10	TRL	14/10/10
	nt from Accident Analysis done for EU-Project ORAX	27/04/10	TRL	27/4/10
	nt from Accident Analysis done for EU-Project ICAR	27/04/10	TUB	14/10/10
	nt from Accident Analysis done for former Project APROSYS	27/04/10	Mr. Schramm	cancelled

Document Number	Title	Origin
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 <sup>th</sup> 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 <sup>th</sup> Meeting of the informal group on frontal impact	Secretary
11.6	Draft Minutes of the 11 <sup>th</sup> Meeting of the informal group on frontal impact	Secretary
11.5	Stapp Paper 2003 on new thoratic 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
11.1	Agenda of the 11 <sup>th</sup> Meeting of the informal group on frontal impact	Secretary
10.9	Draft Minutes of the 10 <sup>th</sup> 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

Annex 3 – Documents list

Annex 5 – Documents II	st 111 GR/F1-09-08_u1	art
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 <sup>th</sup> Meeting of the informal group on frontal impact	Chairman
9.8	Draft Minutes of the 9 <sup>th</sup> 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 <sup>th</sup> Meeting of the informal group on frontal impact	Chairman
8.5	Minutes of the 8 <sup>th</sup> 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 <sup>th</sup> Meeting of the informal group on frontal impact	Chairman
7.7	Minutes of the 7 <sup>th</sup> 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

Annex 3 –Documents list

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 <sup>th</sup> Meeting of the informal group on frontal impact	Chairman
6.6	Draft Minutes of the 6 <sup>th</sup> 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 <sup>th</sup> Meeting of the informal group on frontal impact	Chairman
5.10	Minutes of the 5 <sup>th</sup> 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 <sup>th</sup> Meeting of the informal group on frontal impact	Chairman
4.6	Final minutes of the 4 <sup>th</sup> Meeting of the informal group on frontal impact	Secretary

Annex 3 – Documents list

Annex 5 – Documents II	st 111 GR /11-03-00_ui	art
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 <sup>th</sup> Meeting of the informal group on frontal impact	Chairman
3.12	Draft minutes of the 3 <sup>rd</sup> 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 <sup>rd</sup> Meeting of the informal group on frontal impact	Chairman
2.09	Minutes of the 2 <sup>nd</sup> 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 N⁰94 amendments	J apan
2.06	Outstanding issues with PDB test	UK

Annex 3 - Documents list

Affilex 5 – Documents list		uit
2.05	Accident analysis - Work progress regarding Self-Protection V1	LAB
2.04	2.04 First finding of additional research	
2.03	2.03 UNECE Reg. 94 – Past, Present & Future	
2.02	Issue to be resolved in evaluation of Regulation N°94 amendments	Secretary/Sweden
2.01	Agenda of the 2 <sup>nd</sup> Meeting of the informal group on frontal impact	Chairman
1.04	Draft Minutes of the 1 <sup>st</sup> Meeting of the informal group on frontal impact	Secretary
1.03	Agenda of the 1 <sup>st</sup> 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