

## Final Status Report on Action Items

Action number	Action Items	Action Results	Reported Meeting and/or Date
ACTION-001 (1 <sup>st</sup> TEG)	The chairman will verify the representatives of the organizations that did not attend this Flex-TEG Meeting.	No contact from the U.S., continued registration of two members from South Korea. Autoliv indicated it wanted to cancel its registration as a member of Flex-TEG	2 <sup>nd</sup> TEG, Closed.
ACTION-002 (1 <sup>st</sup> TEG)	The chairman will obtain approval for the added tasks at the next GRSP meeting.	Confirmation is scheduled at 38th GRSP. <- Added tasks are approved by GRSP (38th GRSP)	2 <sup>nd</sup> TEG 3 <sup>rd</sup> TEG, Closed.
ACTION-003 (1 <sup>st</sup> TEG)	The chairman would check with Autoliv (Sweden) and Korea on their experiment contents and schedules.	Autoliv is canceling this, while South Korea wants to run the tests after December (content of tests to be adjusted later) <- finally Korea skipped the Flex-G testing, and waits Flex-GT development.	2 <sup>nd</sup> TEG 3 <sup>rd</sup> TEG, Closed.
ACTION-004 (1 <sup>st</sup> TEG)	Mr. Tanahashi to inform the group if manufacture will allow disclosure of detailed model information per test shown in ESV paper 05-0106.	JAMA cannot disclose them on its part. Basically, it wants to keep the discussion general (because if disclosing the names of the vehicles, separate discussion of individual vehicles is liable to result). However, for the Honda vehicle, Honda gave permission for disclosure of the name (Civic 2004 model is used).	2 <sup>nd</sup> TEG, Closed.
ACTION-005 (1 <sup>st</sup> TEG)	The chairman would confirm the parental body of the Flex-TEG Meeting at the next GRSP and other meetings.	Confirmation is scheduled for 38th GRSP <- This issue is discussed by GRSP (38 <sup>th</sup> GRSP), and GRSP decided to discuss this issue again at the 39 <sup>th</sup> GRSP (Basically, parent body is GRSP or GRSP/PS Informal Group).	2 <sup>nd</sup> TEG 3 <sup>rd</sup> TEG, Closed.
ACTION-006 (1 <sup>st</sup> TEG)	The chairman would present at the GRSP meeting a proposal for releasing Flex-TEG information material to the	The web site idea is accepted by GRSP (38 <sup>th</sup> GRSP), then GRSP settled a home pate for the Flex-TEG at the following	3 <sup>rd</sup> TEG, Closed

	public through the GRSP website.	address, <a href="http://www.unece.org/trans/main/wp29/wp29wgs/wp29grsp/pedestrian_FlexPLI.html">http://www.unece.org/trans/main/wp29/wp29wgs/wp29grsp/pedestrian_FlexPLI.html</a>	
ACTION-007 (2 <sup>nd</sup> TEG)	The Chairman will send the properties of the materials of the pads used in the assembly dynamic calibration tests to the Flex-TEG members.	The Chairman explained the properties of materials used in the assembly dynamic calibration tests in his presentation (TEG-021).	3 <sup>rd</sup> TEG, Closed
ACTION-008 (2 <sup>nd</sup> TEG)	The Chairman will disclose waveform data of typical assembly calibration tests (digital data) to the Flex-TEG members.	The Chairman disclosed a waveform data which is typical assembly calibration tests data (digital data) of Flex-GT $\alpha$ (TEG-024).	3 <sup>rd</sup> TEG, Closed
ACTION-009	Japan: will make improvements to movable range of knee of Flex-G.	Japan improved the movable range of knee of Flex-G, and developed a Flex-GT $\alpha$ .	3 <sup>rd</sup> TEG, Closed
ACTION-010 (2 <sup>nd</sup> TEG)	BASt/BGS: will run confirmation tests on repeatability and reproducibility of Flex-G in assembly state.	BASt/BGS is skipped the Flex-G testing, and wait a Flex-GT development.	3 <sup>rd</sup> TEG, Closed.
ACTION-011 (3 <sup>rd</sup> TEG)	Mr Imaizumi will recheck the position of JAMA members on Mr Kinsky's request to disclose the model names of test vehicles.	JAMA, in principle, cannot disclose to TEG the model names of vehicles used in Flex-Impactor assessment tests, because JAMA's house rule on information release prohibits such disclosure.  However, if model name information is sought only for TEG internal discussion purposes, disclosure may be possible on the condition that TEG will not release JAMA's model name information to the outside through reports, minutes, official documents or any other mediums.  JAMA accordingly requests explanations on why model name information is necessary in TEG discussions and what is to be gained by having such information.	4 <sup>th</sup> TEG, Closed.
ACTION-012 (3 <sup>rd</sup> TEG)	Mr Imaizumi agreed to confirm if JAMA members would be willing to use TRL-LFI as well as Flex in future vehicle tests by JAMA.	JAMA conducted TRL-LFI test as well as Flex-GT test.	4 <sup>th</sup> TEG, Closed.

ACTION-013 (3 <sup>rd</sup> TEG)	Each TEG member should review the presentation given at the current (3 <sup>rd</sup> ) Flex-TEG Meeting and transmit their comments to other members by the end of May 2006.	TEG member conducted the review. ACEA gave their comments to TEG members. Chairperson answered their questions.	ACEA: 30 May 2006. Chairperson: 6 June 2006., Closed.
ACTION-014 (3 <sup>rd</sup> TEG)	Japan should transmit the results of its future tests to TEG members at least one week prior to the coming Flex-TEG Meeting.	Japan transmitted their computer simulation results two weeks prior to the 4 <sup>th</sup> Flex-TEG meeting. As for the test results, due to the 4 <sup>th</sup> Flex-TEG meeting held earlier than they planned date, so they transmitted their test results 4 days prior to the 4 <sup>th</sup> Flex-TEG meeting. ACEA transmitted their test results 4 days prior to the 4 <sup>th</sup> Flex-TEG meeting because the test is finished just before the meeting.	4 <sup>th</sup> TEG, Closed.
ACTION-015 (3 <sup>rd</sup> TEG)	The chairperson should check with HONDA if TEG members can share the human FE model and the Flex-GT FE model using for the finalization of Flex-GT specifications.	The chairperson checked with HONDA if TEG members can share the human FE model and the Flex-GT FE model, however, it is not allowed because many of HONDA knowledge is included.	4 <sup>th</sup> TEG, Closed.
ACTION-016 (3 <sup>rd</sup> TEG)	Japan should proceed with its development of Flex-GT according to the above schedule.	Japan could not proceed the Flex-GT development as their planned schedule at 3 <sup>rd</sup> TEG, however, they finished the development by March 2007 then conducted several testing using Flex-GT.	4 <sup>th</sup> TEG, Closed.
ACTION-017 (3 <sup>rd</sup> TEG)	Mr. Been will provide new sentences for Tasks 3 and 4 by the next Flex-TEG Meeting.	Mr. Been tried to think much clearer sentences for Task 3 and 4 for better understanding of the meaning. However, TEG member already know the meaning of the tasks, so he proposed to do not revise the sentence. TEG member agreed his proposal at the 4 <sup>th</sup> TEG meeting.	4 <sup>th</sup> TEG, Closed.
ACTION-018 (4 <sup>th</sup> TEG)	BAsT/BGS shall conduct a comparison test on Flex-GT and the Flex-GT prototype and shall report the results to TEG members.	BGS report (TEG-043) which is related on this topic is submitted to the TEG members on 7 Nov. 2007.	7 Nov. 2007, Closed.
ACTION-	Japan will evaluate and analyze the	Japan report (TEG-034-Rev.1) which is	6 Aug.

019 (4 <sup>th</sup> TEG)	repeatability and reproducibility of each part of the impactor based on the measurements of the impactor itself and will report the result to TEG members.	related on this topic is submitted to the TEG members on 6 Aug. 2007.	2007. Closed
ACTION-020 (5 <sup>th</sup> TEG)	The chairperson will submit a TEG document stating the repair method when multiple measurement cables have been disconnected.	The chairperson submitted TEG-066 stating the repair method when multiple measurement cables have been disconnected.	6 <sup>th</sup> Flex-TEG, Closed.
ACTION-021 (5 <sup>th</sup> TEG)	The chairperson will add photos that show the deformation of the simplified car to the TEG-045.	The chairperson added some photos that show the deformation of the simplified car to the TEG-045, and then made TEG-045-Rev1.	6 <sup>th</sup> Flex-TEG, Closed.
ACTION-022 (5 <sup>th</sup> TEG)	Mr. Been will propose improved calibration methods for the Flex-PLI.	Mr. Been proposed improved calibration methods for the Flex-PLI (TEG-056).	29 Feb. 2008, Closed.
ACTION-023 (5 <sup>th</sup> TEG)	The chairperson will circulate a final draft of the Flex-GTR design two to four weeks before the next (6 <sup>th</sup> ) Flex-TEG meeting.	The chairperson circulated a final draft of the Flex-GTR design two to four weeks before the next (6 <sup>th</sup> ) Flex-TEG meeting.	4 March 2008, Closed.
ACTION-024 (5 <sup>th</sup> TEG)	Mr.Kinsky will do double check the injury risk curves by their in house experts.	Postpone to the 7 <sup>th</sup> Flex-TEG meeting <b>Postpone to the 8<sup>th</sup> Flex-TEG meeting.</b>	6 <sup>th</sup> TEG <b>7<sup>th</sup> TEG</b>
ACTION-025 (5 <sup>th</sup> TEG)	Mr.Been will ask EEVC/ WG12 to review the current injury thresholds for FLEX-PLI.	Postpone to the 7 <sup>th</sup> Flex-TEG meeting. <b>Mr. Been asked that to Chairman Wismans and he responded verbally (unofficially): WG12 (biomechanics) have no Terms of Reference related to pedestrian safety. This should be addressed by EEVC WG17, who are not active (sleeping) at this moment..</b>	6 <sup>th</sup> TEG 7 <sup>th</sup> TEG Closed.
ACTION-026 (5 <sup>th</sup> TEG)	Mr.Been will make a draft proposal on EC FP7 project regarding FLEX-PLI, and then Flex-TEG member will evaluate the contents.	Postpone to the 7 <sup>th</sup> Flex-TEG meeting. <b>Mr. Been stated on this item. The EU project officer that was consulted on this initiative indicated that for the 2nd call in FP7there were many proposals under preparation. This means a lot of competition and due to the fact that there were no OEM's involved as direct partners and due</b>	6 <sup>th</sup> TEG 7 <sup>th</sup> TEG Closed.

		to the narrow scope on the legform only the chance of success were considered very limited. In view of the efforts needed to prepare a proposal it was decided to stop.	
ACTION-027 (5 <sup>th</sup> TEG)	The chairperson will make a draft Flex-TEG status report for the 42nd GRSP meeting containing a summary of this meeting by this weekend (Dec. 8, 9), and then distribute it to Flex-TEG members.	The chairperson made a draft Flex-TEG status report for the 42nd GRSP meeting containing a summary of the 5th meeting by Dec. 8-9 2007, and then distributed it to Flex-TEG members.	8-10 Dec. 2008, Closed.
ACTION-028 (6 <sup>th</sup> TEG)	Flex-GTR developer will develop actual Flex-GTR, based on the agreed Mechanical design.	Flex-GTR developer did that by end of Nov. 2008.	7 <sup>th</sup> TEG. Closed.
ACTION-029 (6 <sup>th</sup> TEG)	Flex-GTR developer will develop actual Flex-GTR, based on the agreed Instrumentation and Electrical Design.	Flex-GTR developer did that by end of Nov. 2008.	7 <sup>th</sup> TEG. Closed.
ACTION-030 (6 <sup>th</sup> TEG)	Flex-TEG member will continue to discuss the purpose of the ACL and PCL measurement values as 'for the injury evaluation' or 'for the calibration test only'.	Set as a Discussion Item for 7 <sup>th</sup> TEG meeting. In the 7 <sup>th</sup> TEG meeting, the ACL and PCL were proposed to treat as monitoring purpose only items. If some more arguments occur in the future TEG, we will discuss again on this matter as new action item.	7 <sup>th</sup> TEG. Closed.
ACTION-031 (6 <sup>th</sup> TEG)	Flex-GTR developer will conduct actual Flex-GTR calibration tests, based on the agreed Full Calibration Test Procedure of the Flex-GTR, except the dynamic assembly calibration test procedure.	Flex-GTR developer did that by end of Nov. 2008. Additionally, the developer proposed a Flex-GTR dynamic assembly calibration test procedure as their proposal.	7 <sup>th</sup> TEG. Closed.
ACTION-032 (6 <sup>th</sup> TEG)	Flex-TEG member will continue to discuss that which is better the 'pendulum style' or the 'inverse style' as for the Flex-GTR dynamic assembly calibration test procedure.	Set as a Discussion Item for 7 <sup>th</sup> TEG meeting. After the 7 <sup>th</sup> TEG discussions, this item was set as continuous discussion items until the 8 <sup>th</sup> TEG meeting. (continued by ACTION-036)	7 <sup>th</sup> TEG. Closed. (Continued by ACTION -036)
ACTION-033 (6 <sup>th</sup> TEG)	Flex-GTR developer will prepare optional instrumentations of Flex-GTR to who required and can support the development costs.	Flex-GTR developer shows two kind of on-board DAS (M=BUS type and Slice type) as examples of optional instrumentations. <b>And, finished</b>	7 <sup>th</sup> TEG. Closed.

		<b>optional accelerometer design, so now is available.</b>	
ACTION-034 (6 <sup>th</sup> TEG)	Flex-TEG members will act based on the future action plans which are proposed by the chairperson <b>and agreed by TEG members at the 6<sup>th</sup> TEG Meeting.</b>	The first future action plan timing, by the end of September 2008, is delayed; however, the first future action plans are progressed so far.	7 <sup>th</sup> TEG. Closed.
ACTION-035 (7 <sup>th</sup> TEG)	MESSRING and DTS will draft a proposal for the ISO MME codes for the Flex-PLI measurement items and then send the proposal to the TEG members.	MESSRING made a document "Suggestion for the ISO MME codes for the Flex-PLI measurement items", and then submitted it to the TEG members (TEG-073-Rev.1)	27 Feb. 2009. Closed.
ACTION-036 (7 <sup>th</sup> TEG)	TEG members will continue discussing which calibration test method is the better, the pendulum test or the inverse test, until the next TEG meeting.	TEG members were continued the discussion until the 8 <sup>th</sup> TEG meeting.	Until 8 <sup>th</sup> TEG meeting. Closed.
ACTION-037 (7 <sup>th</sup> TEG)	Flex-TEG members shall continue to discuss the thresholds for the Flex-PLI until the next TEG meeting.	TEG members continued to discuss the thresholds for the Flex-PLI until the 8 <sup>th</sup> TEG meeting.	Until 8 <sup>th</sup> TEG meeting. Closed.
ACTION-038 (7 <sup>th</sup> TEG)	Each organization related to the evaluation tests will take the JAMA proposed test schedule back to their organizations and check whether it is possible to keep the test schedule or not.	The JAMA proposed evaluation test schedule is tight. Therefore, some more evaluation time was requested from ACEA.	17 March 2009. Closed.
ACTION-039 (7 <sup>th</sup> TEG)	The chairperson will confirm whether or not making the PS-gtr Phase 2 draft is a Flex-TEG task at the next GRSP meeting.	The chairperson confirmed on this question at the 44 <sup>th</sup> GRSP meeting, and then confirmed making the PS-gtr Phase 2 draft is NOT a Flex-TEG task. If we need a draft making informal working group, we need to propose that at the WP29, and then need to get approval on that from the WP29.	11 Dec. 2008. Closed.
ACTION-040 (7 <sup>th</sup> TEG)	The chairperson will draft the Flex-TEG status report for the next GRSP meeting, including a summary of the 7th TEG meeting, before the GRSP meeting and then finalize the report after incorporating Flex-TEG members'	The chairperson made a draft for the 7 <sup>th</sup> Flex-TEG status report in order to submit it to the 44 <sup>th</sup> GRSP meeting, and then finalized the report with Flex-TEG member's comments.	11 Dec. 2008. Closed.

	comments.		
ACTION-041 (8 <sup>th</sup> TEG)	Japan and Europe will share information about the optimum method for launching the impactor and cooperate to facilitate stable launching if possible.	Japan pleased to share the information with the TEG members (submit a document to the 9 <sup>th</sup> TEG).	9 <sup>th</sup> TEG meeting Closed
ACTION-042 (8 <sup>th</sup> TEG)	TEG members shall examine the applicability of the inverse test as the calibration test until the next TEG meeting and decide whether to adopt the inverse test for calibrating the Flex-GTR prototype at the next (9th) TEG meeting.	TEG members examined applicability of the inverse test as the calibration test with additional information from BAsT and ACEA until the 9th TEG meeting.	Until 9 <sup>th</sup> TEG meeting Closed.
ACTION-043 (8 <sup>th</sup> TEG)	Mr. Zander shall prepare the calibration corridor for the inverse test by sharing the results of the inverse tests in Japan.	Mr. Zander will submit a document regards to the corridor making method to the 9 <sup>th</sup> TEG.	9 <sup>th</sup> TEG Closed
ACTION-044 (8 <sup>th</sup> TEG)	JAMA, BAsT, and other TEG members who experts on the injury threshold values, will collaborate and propose an agreeable single threshold value for tibia by the next (9th) TEG meeting.	JAMA, BAsT and ACEA made a discussion on to the injury threshold values seriously.	Until 9 <sup>th</sup> TEG meeting Closed.
ACTION-045 (8 <sup>th</sup> TEG)	TEG members shall perform evaluation tests on the Flex-GTR prototype based on the TEG-096 schedule.	JAMA conducted and then finished their round robbing tests. ACEA remained some round robbing tests.	9 <sup>th</sup> TEG Continued by ACTION-050 Closed
ACTION-046 (8 <sup>th</sup> TEG)	MESSRING shall propose the TEG agreement to the ISO examination group.	MESSRING proposed the TEG agreement to the ISO examination group. If updated information obtained, MESSRING will serve the information to this group.	9 <sup>th</sup> TEG Closed
ACTION-047 (8 <sup>th</sup> TEG)	TEG members will check the contents of the draft amendments of gtr 9 prepared by Japan voluntarily.	TEG members will continue the review.	9 <sup>th</sup> TEG
ACTION-048 (9 <sup>th</sup> TEG)	ACEA will conduct technical feasibility studies by the next GRSP in order to remove the brackets from [340] Nm. JAMA will conduct technical feasibility studies by the next GRSP in order to investigate the need for the relaxation	JAMA: finished. ACEA: Not finished	10 <sup>th</sup> TEG



	zone.		
ACTION-049 (9 <sup>th</sup> TEG)	ACEA will conduct technical feasibility studies by the next GRSP in order to remove brackets from [22] mm.	ACEA: Not finished	10 <sup>th</sup> TEG
ACTION-050 (9 <sup>th</sup> TEG)	ACEA will complete the round-robin tests by the next GRSP.	ACEA: Not Finished (3 auto makers remained to use)	10 <sup>th</sup> TEG
ACTION-051 (9 <sup>th</sup> TEG)	FTSS will complete the newest manual by the next GRSP and distribute it to TEG members.	FTSS: Almost Completed	10 <sup>th</sup> TEG
ACTION-052 (9 <sup>th</sup> TEG)	TEG members will cooperate in the efforts to collect experiment data for preparing the corridor for dynamic calibration tests.	JAMA-JARI Conducted Pendulum Type 3 Test	10 <sup>th</sup> TEG Closed.
ACTION-053 (9 <sup>th</sup> TEG)	TEG members will check the preliminary formal draft amendment of gtr9 to be prepared by Japan and comment on it.	TEG had checked the draft amendment of gtr9 which is prepared by Japan in Sep 2009.	SEP 2009 Closed.
ACTION-054 (9 <sup>th</sup> TEG)	The Chairperson will decide whether to have the meeting or not after consultation with the Ministry of Land, Infrastructure and Transport of Japan (J-MLIT).	Chairperson: Discussed that with J-MLIT and then decided to have 10 <sup>th</sup> Flex-TEG meeting on December 1 <sup>st</sup> - 2 <sup>nd</sup> .	OCT-NOV 2009 Closed.
ACTION-055 (9 <sup>th</sup> TEG)	The Chairperson will prepare the status report (draft) to submit to the 46th GRSP, and TEG members will review it.	Chairperson: Made draft and circulated it to TEG members, and then finalized.	OCT-NOV 2009 Closed.