

3rd INFORMAL WORKING GROUP MEETING 2015-2016  
- Lithium Batteries and UN Manual of Tests and Criteria -

**PRELIMINARY AGENDA (Jan 12)**

Hosted by RECHARGE, PRBA and COSTHA

March 30 – April 1, 2016

Meeting Location:

SAFT

111 Bd. Alfred Daney

33000 Bordeaux, FRANCE

PRELIMINARY AGENDA DAY 1: Starting at 9.30 am – Closing at 5.00 pm.

PRELIMINARY AGENDA DAY 2: Starting at 9.00 am – Closing at 5.00 pm.

#	TOPICS	RELATED ISSUES	CONTRIBUTORS
	Timing/Session		
		INTRODUCTORY REMARKS	
1.	9.30 – 11.00 am 1.A. DEFINITIONS (1 <sup>st</sup> PART)	1.1. Definition of Equipment in SP188, including chargers.  Review of the definitions in view of the comments of the UNSCETDG	1.1.C. Chanson/G. Kerchner  1.2.G.Kerchner
	11.00 – 11.30 am	COFFEE BREAK	
1.	11.30 – 12.30 am 1.B. DEFINITIONS (2 <sup>nd</sup> Part)	DEFINITIONS (2 <sup>nd</sup> Part) 1.3 UN/SCETDG/48/INF.61 (France): Classification of hybrid lithium ion and lithium metal batteries – results of the lunchtime working group 1.4 Definition of “Disassembly”: proposal is made to refer to the energy of projection, like for the explosive (test series 6c), instead of the “wire mesh”.  Review of the UN SCETDG comments  Consider new methodology and examples	1.3.G.Kerchner  1.4. Speaker welcome
	12.30 – 1.30	LUNCH (served next to the meeting room)	

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1.	<p>1.30 – 3.00 pm</p> <p>1.C. DEFINITIONS (3<sup>rd</sup> Part)</p>	<p>1.5 RLMP: Harmonization of the energy rating under SP 188 for rechargeable Li metal Polymer batteries.</p> <p>1.6 Can cells exceed 20 Wh in a battery with a Watt-hour rating of not more than 100 Wh.(SP188b)?</p>	<p>Consider new proposals,</p> <p>Propose data to clarify the differences between the cells and batteries for what concerns the risk of propagation in case of thermal runaway.</p>	<p>1.5.C. Chanson</p> <p>1.6. speaker welcome</p>
	3.00 – 3.30 pm	COFFEE BREAK		
2.	<p>3.30 – 5.00 pm</p> <p>OVERVIEW OF TESTING REQUIREMENTS</p>	<p>2.1 Summary table of cell and battery testing requirements</p> <p>2.2 Consistency between UN Model Regulations, Manual of Tests and Criteria and IEC battery standards definitions</p>	<p>Review of the table proposed in view of the UN SCETDG comments</p>	<p>2. G. Kerchner/C. Chanson /</p>

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PRELIMINARY AGENDA DAY 2: Starting at 9.00 am – Closing at 5.00 pm.

3.	9:00am – 10.00 pm UN tests: Cycling before test of batteries	3.1. Request was made to transfer the Cycling requirements before <b>testing of batteries</b> to the testing of cells.	The IWG was supportive of reviewing the number of cycles but requested additional technical data.	Corina Stanescu
4	10.00- 10.30 am Lithium Battery test report	7.1. review of the proposed test in view of the comments of the UNSCETDG		All?
	10.30– 11.00 am	COFFEE BREAK		
5.	11.00 – 12.3.00 pm <b>TESTING BATTERIES INTEGRAL TO EQUIPMENY</b>	5.1 It is proposed that testing batteries integral to equipment, such as power packs, should be applicable to the battery within the equipment	Can UN Model Regulations and Tests be modified to account for different power pack designs?	G. Kerchner
	12.30 – 1.30 pm	LUNCH		
6.	1.30 pm- 3.00 pm Damaged and defective batteries transport	<ol style="list-style-type: none"> <li>1. Evaluate and quantify the effects of thermal runaway or other reactions (heat, mechanical stresses, gas emissions...) of damaged lithium batteries and possible mitigations measures of these effects (packagings design and testing, transport conditions...)</li> <li>2. Consider preventions measures to avoid such reactions such as deactivation, cooling..., and their scope of applicability.</li> </ol>		Daimler/ G. Kerchner B. Richard

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		3. Consider different type of representative products and study suitable prevention and mitigation measures as appropriate.		
	3.00 – 3.30 pm	COFFEE BREAK		
7.	3.30 pm- 5.00 pm Damaged and defective criteria (SP376)	Proposals to improve SP 376, with a list of criteria and a protocol to determine if the battery is damaged and defective.	The WG concluded future work would include developing a list of criteria to consider and simple instructions on how to evaluate the criteria	G. Kerchner/ B. Richard

PRELIMINARY AGENDA DAY 3: Starting at 9.00 am – Closing at 1.00 pm.

8.	REMAINING ISSUES Exceptions for very small lithium ion and lithium metal cells (e.g., coin cells)	Consideration of new UN number or modifications to existing entries in list of dangerous goods		G. Kerchner
9.	ISSUES FOR FUTURE CONSIDERATION			