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Committee of Experts on the Transport of Dangerous Goods and on the Globally Harmonized System of Classification and Labelling of Chemicals

Sub-Committee of Experts on the Transport of Dangerous Goods

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Geneva, 27 June – 6 July 2016 Item 4 (d) of the provisional agenda **Electric storage systems: miscellaneous**

UN Informal Meeting on Lithium Batteries – 2015-2016, 3rd Session, 30 March – 1 April 2016 – Bordeaux, France

Modified table option 1 presented in the proposal of the Informal working group (Working Paper 46/proposal 3)

11. Introduce the following new paragraph at the end of 38.3.3

"38.3.3.1 The provisions of 38.3.2.1 and 38.3.3 are summarized in the following tables:

Table 38.3.2: Summary table of [required/applicable] tests for primary cells and batteries

	1	T.1	T.2	T.3	T.4	T.5	T.6	T.7	T.8	Sum		
Cells not transported separately	undischarged state						5			20		
	fully discharged state						5		10	20		
Cells	undischarged state		10							40		
	fully discharged state								10			
Single cell batteries ^a	undischarged state		10							40		
	fully discharged state			10			5		10	40		
Small batteries	undischarged state		4							8		
	fully discharged state		4							8		
Large Batteries	undischarged state		4							8		
	fully discharged state		4							o		
Batteries assembled with tested batteries ≤ 500 g	undischarged state		1							1		
Batteries assembled with tested batteries > 500 g ^b										0		

^a Except for the T.7 Overcharge test, a single cell battery containing one tested cell does not require testing unless a change in cell design could result in the failure of any test.

If it is equipped with a system capable of monitoring the assembled battery and preventing short circuits, or over discharge between the batteries in the assembled battery and any overheat or overcharge of the assembled battery.

Table 38.3.3: Summary table of [required/applicable] tests for rechargeable cells and batteries

	Recharge	able cel	ls and b	atteries	;						
		T.1	T.2	T.3	T.4	T.5	T.6	T.7 ^a	T.8	Sum	
Cells not transported separately from a battery	first cycle, 50% charged state						5			-	
	first cycle, fully discharged state								10		
	50th cycle, fully discharged state								10		
	first cycle, fully charged state	10									
	first cycle, 50% charged state						5]	
Cells	first cycle, fully discharged state								10	35	
	50th cycle, fully discharged state								10		
	first cycle, fully charged state			10	•		4				
	first cycle, 50% charged state						5			43	
Single cell batteries ^b	50th cycle, fully charged state							4			
batteries	first cycle, fully discharged state								10		
	50th cycle, fully discharged state								10		
G 11.1	first cycle, fully charged state 4							4		1.6	
Small batteries	50th cycle, fully charged state	4						4		16	
T 1	first cycle, fully charged state		2					2		- 8	
Large batteries	25th cycle, fully charged state	2				2					
Batteries assembled with tested batteries ≤ 6,200 Wh or ≤500g Li	fully charged state	1				1		2			
Batteries assembled with tested batteries > 6,200 Wh or or >500g Li ^c										0	

^a Batteries or single cell batteries not equipped with battery overcharge protection that are designed for use only as a component in another battery or in equipment, which affords such protection, are not subject to the requirements of this test;

Except for the T.7 Overcharge test, a single cell battery containing one tested cell dos not require testing unless a change in cell design could result in the failure of any test;

If it is equipped with a system capable of monitoring the assembled battery and preventing short circuits, or over discharge between the batteries in the assembled battery and any overheat or overcharge of the assembled battery."