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| **UN/SCETDG/49/INF.70** |
| **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 30 June 2016**  **Forty-ninth session**  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**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Primary cells and batteries | | | | | | | | | | | |
|  |  | 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 |
| Cells | undischarged state | 10 | | | | | | 5 |  |  | 40 |
| fully discharged state | 10 | | | | | | 5 |  | 10 |
| Single cell batteriesa | undischarged state | 10 | | | | | | 5 |  |  | 40 |
| fully discharged state | 10 | | | | | | 5 |  | 10 |
| Small batteries | undischarged state | 4 | | | | | |  |  |  | 8 |
| fully discharged state | 4 | | | | | |  |  |  |
| Large Batteries | undischarged state | 4 | | | | | |  |  |  | 8 |
| fully discharged state | 4 | | | | | |  |  |  |
| Batteries assembled with tested batteries ≤ 500 g | undischarged state |  | |  | 1 | | |  |  |  | 1 |
| Batteries assembled with tested batteries > 500 gb |  |  | |  |  |  |  |  |  |  | 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.

b 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**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Rechargeable cells and batteries** | | | | | | | | | | |
|  |  | T.1 | T.2 | T.3 | T.4 | T.5 | T.6 | T.7a | T.8 | Sum |
| Cells not transported separately from a battery | first cycle, 50% charged state |  |  |  |  |  | 5 |  |  | 25 |
| first cycle, fully discharged state |  |  |  |  |  |  |  | 10 |
| 50th cycle, fully discharged state |  |  |  |  |  |  |  | 10 |
| Cells | first cycle, fully charged state | 10 | | | | |  |  |  | 35 |
| first cycle, 50% charged state |  |  |  |  |  | 5 |  |  |
| first cycle, fully discharged state |  |  |  |  |  |  |  | 10 |
| 50th cycle, fully discharged state |  |  |  |  |  |  |  | 10 |
| Single cell batteriesb | first cycle, fully charged state | 10 | | | | |  | 4 |  | 43 |
| first cycle, 50% charged state |  |  |  |  |  | 5 |  |  |
| 50th cycle, fully charged state |  |  |  |  |  |  | 4 |  |
| first cycle, fully discharged state |  |  |  |  |  |  |  | 10 |
| 50th cycle, fully discharged state |  |  |  |  |  |  |  | 10 |
| Small batteries | first cycle, fully charged state | 4 | | | | |  | 4 |  | 16 |
| 50th cycle, fully charged state | 4 | | | | |  | 4 |  |
| Large batteries | first cycle, fully charged state | 2 | | | | |  | 2 |  | 8 |
| 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 Lic |  |  |  |  |  |  |  |  |  | 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;

b 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;

c 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.”.

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