

# LITHIUM CELL TEST SUMMARY AND SUPPLIER INQUIRY

IN ACCORDANCE WITH SUB-SECTION 38.3  
OF MANUAL OF TESTS AND CRITERIA

N/A = Not Applicable

|                                    |
|------------------------------------|
| <b>1. Name/Description of cell</b> |
|                                    |

|                                |  |
|--------------------------------|--|
| <b>2. Manufacturer of cell</b> |  |
| Name                           |  |
| Address                        |  |
| Phone                          |  |
| Email                          |  |
| Website                        |  |

|  |  |
|--|--|
| <b>2a. Manufacturer of the equipment (if the cell is contained in equipment)</b> |  |
| Name   |  |
| Address  |  |
| Phone  |  |
| Email  |  |
| Website  |  |

|                                   |  |
|-----------------------------------|--|
| <b>3. Test laboratory of cell</b> |  |
| Name                              |  |
| Address                           |  |
| Phone                             |  |
| Email                             |  |
| Website                           |  |

|  |  |                     |  |
|--|--|---------------------|--|
| <b>4. ID-number and date</b>             |  |                     |  |
| Unique test report identification number |  | Date of test report |  |

## DESCRIPTION OF CELL

|   |                  |                          |                    |
|---|------------------|--------------------------|--------------------|
| <b>5. Mark the type of cell/battery with an "•"</b> |                  |                          |                    |
| <input type="checkbox"/>                            | Lithium ion cell | <input type="checkbox"/> | Lithium metal cell |

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|   |
|---|
| Name/Description of cell (taken from field 1) |
|   |

| 6. Parameters  | Cell |
|--|------|
| Mass in gram (g):  |      |
| Lithium ion: Indicate watt-hour rating (Wh):               |      |
| Lithium metal: Indicate lithium metal content in gram (g): |      |

|                                 |
|---------------------------------|
| 7. Physical description of cell |
|                                 |

|                  |
|------------------|
| 8. Model numbers |
|                  |

## TESTS AND RESULTS

| 9. List of tests conducted and results<br>- Mark N/A, pass or fail with an " "   | N/A | pass | fail |
|--|-----|------|------|
| T1 - Altitude simulation   |     |      |      |
| T2 - Thermal Test  |     |      |      |
| T3 - Vibration   |     |      |      |
| T4 - Shock   |     |      |      |
| T5 - External Short Circuit  |     |      |      |
| T6 - Impact - for cylindrical cells having a diameter of at least 18 mm  |     |      |      |
| T6 - Crush - for prismatic cells, pouch cells, button cells and cylindrical cells having a diameter of less than 18 mm |     |      |      |
| T7 - Overcharge  |     |      |      |
| T8 - Forced Discharge  |     |      |      |
|  |     |      |      |
|  |     |      |      |

|   |
|---|
| 10. Reference to the revised edition of the Manual of Tests and Criteria used and to amendments thereto |
|   |

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Name/Description of cell (taken from field 1)

## ADDITIONAL SUPPLIER INQUIRY

|  |  |     |    |  |
|--|--|-----|----|--|
| <b>11. Quality management system for manufacturing cells</b><br>Does the manufacturer of the cell/battery manufacture the products based on a documented quality management system according to transport regulations? |  | YES | NO |  |
|--|--|-----|----|--|

|   |  |     |    |  |
|---|--|-----|----|--|
| <b>12. Are the following parameters exceeded?</b><br>Lithium ion cell: more than 20 Wh<br>Lithium metal cell: more than 1 g Lithium |  | YES | NO |  |
|---|--|-----|----|--|

|  |  |                        |    |     |
|--|--|------------------------|----|-----|
| <b>Check point 13 – 15 need to be answered when 13 has been ticked "YES":</b>  |  |                        |    |     |
| <b>13.</b> Does each cell incorporates a safety venting device or is designed to preclude a violent rupture under normal conditions of carriage?   |  | YES                    | NO |     |
| <b>14.</b> Is each cell equipped with an effective means of preventing external short circuits?  |  | YES                    | NO |     |
| <b>15.</b> Is each battery containing cells or series of cells connected in parallel equipped with effective means as necessary to prevent dangerous reverse current flow (e.g. diodes, fuses, etc.) |  | Not relevant for cells |    | N/A |

|   |  |     |     |    |
|---|--|-----|-----|----|
| <b>16. Only in air transport: State of Charge (SoC) for UN 3480 Lithium ion cells and lithium polymer cells</b> |  |     |     |    |
| State of Charge (SoC) max. 30 %   |  | N/A | YES | NO |

## CELLS INSTALLED IN EQUIPMENT

|   |  |     |     |    |
|---|--|-----|-----|----|
| <b>17. Check point 17 needs to be answered when the cells are installed in articles:</b>  |  |     |     |    |
| <b>17.a)</b> Only button cells enclosed?  |  | YES | NO  |    |
| <b>17.b)</b> Number of enclosed cells (other than button cells) per equipment   |  |     |     |    |
| <b>When the equipment is intentionally active/switched on during transport e.g. data loggers:</b>   |  |     |     |    |
| <b>17.c)</b> Confirmation that no dangerous amount of heat is emitted from the equipment  |  | N/A | YES | NO |
| <b>17.d)</b> Confirmation that the equipment when transported by air fulfills the defined air transport standards for electromagnetic radiation according to DO-160 |  | N/A | YES | NO |

|                        |                                       |  |
|------------------------|---------------------------------------|--|
| <b>18. Place, Date</b> | <b>19. Title, Surname, First name</b> | <b>20. Company stamp and signature</b> |
|                        |                                       |  |