

2013-2014 Lithium Batteries Air Transport Quick Reference (PRELIMINARY)

| Packing Instruction   | Capacity                             | UN Testing (UN38.3) | Quality Management Programme | Shipper Training | Qty/Pkg Pax A/C  | Qty/Pkg Cargo A/C | Outer Packaging                        | Inner Packaging                                | Markings | Labeling | Overpack                               | Mix-pack                             | Documentation                          | Acceptance check | NOTOC        |
|---|--------------------------------------|---------------------|------------------------------|------------------|--|-------------------|--|--|----------|----------|--|--------------------------------------|--|------------------|--------------|
| <b>UN 3480 Lithium ion batteries (including lithium ion polymer batteries)</b>                        |                                      |                     |                              |                  |  |                   |  |  |          |          |  |                                      |  |                  |              |
| PI965 Section IA  | Cell >20Wh<br>Battery >100Wh         | Required            | Required                     | 5-day            | 5 kg net   | 35 kg net         | UN PG II                               | Required, protect against short circuit        | DG       |          | "Overpack"                             | Mix with other Section I and IA only | DGD                                    | Checklist        | Required     |
| PI965 Section IB  | Cell ≤20Wh<br>Battery ≤100Wh         | Required            | Required                     | 5-day            | 10 kg G  | 10 kg G           | Strong outer packaging, 1.2m drop test | Required, protect against short circuit        | DG       |          | "Overpack"                             | Mix with other Section IB only       | AWB Alternative written documentation  | Checklist        | Required     |
| PI965 Section II  | Cell ≤20Wh<br>Battery ≤100Wh         | Required            | Required                     | Self-briefed     | ≤2.7Wh<br>2.5 kg net or<br>>2.7Wh<br>8 cells or<br>2 batteries | Same as Pax A/C   | Strong outer packaging, 1.2m drop test | Required, protect against short circuit        | On label |          | "Overpack"                             | Mix with other Section II only       | AWB, Alternative written documentation | Not required     | Not required |
| <b>UN 3481 Lithium ion batteries packed with equipment (including lithium ion polymer batteries)</b>  |                                      |                     |                              |                  |  |                   |  |  |          |          |  |                                      |  |                  |              |
| PI966 Section I   | Cell >20Wh<br>Battery >100Wh         | Required            | Required                     | 5-day            | 5 kg net   | 35 kg net         | UN PG II                               | Required, protect against short circuit        | DG       |          | "Overpack"                             | Mix with other Section I and IA only | DGD                                    | Checklist        | Required     |
| PI966 Section II  | Cell ≤20Wh<br>Battery ≤100Wh         | Required            | Required                     | Self-briefed     | 5 kg net<br>"1+2 spare"  | 5 kg net          | Strong outer packaging, 1.2m drop test | Required, protect against short circuit        | On label |          | "Overpack"                             | Mix with other Section II only       | AWB, Alternative written documentation | Not required     | Not required |
| <b>UN 3481 Lithium ion batteries contained in equipment (including lithium ion polymer batteries)</b> |                                      |                     |                              |                  |  |                   |  |  |          |          |  |                                      |  |                  |              |
| PI967 Section I   | Cell >20Wh<br>Battery >100Wh         | Required            | Required                     | 5-day            | 5 kg net   | 35 kg net         | Strong outer packaging                 | Not required<br>Prevent accidental activation  | DG       |          | "Overpack"                             | Mix with other Section I and IA only | DGD                                    | Checklist        | Required     |
| PI967 Section II  | Cell ≤20Wh<br>Battery ≤100Wh         | Required            | Required                     | Self-briefed     | 5 kg net   | 5 kg net          | Strong outer packaging                 | Not required.<br>Prevent accidental activation | On label |          | > 4 cells or 2 batteries<br>"Overpack" | Mix with other Section II only       | AWB, Alternative written documentation | Not required     | Not required |
| <b>UN 3090 Lithium metal batteries (including lithium alloy batteries)</b>                            |                                      |                     |                              |                  |  |                   |  |  |          |          |  |                                      |  |                  |              |
| PI968 Section IA  | Cell >1g<br>Battery >2g              | Required            | Required                     | 5-day            | N/A  | 35 kg net         | UN PG II                               | Required, protect against short circuit        | DG       |          | "Overpack"                             | Mix with other Section I and IA only | DGD                                    | Checklist        | Required     |
| PI968 Section IA (continued)  | Cell >1g<br>Battery >2g              | Required            | Required                     | 5-day            | 2.5 kg net<br>Rigid metal packaging required                   | N/A               | UN PG II                               | Required, protect against short circuit        | DG       |          | "Overpack"                             | Mix with other Section I and IA only | DGD                                    | Checklist        | Required     |
| PI968 Section IB  | Cell ≤1g<br>Battery ≤2g              | Required            | Required                     | 5-day            | 2.5 kg G   | 2.5 kg G          | Strong outer packaging, 1.2m drop test | Required, protect against short circuit        | DG       |          | "Overpack"                             | Mix with other Section IB only       | AWB Alternative written documentation  | Checklist        | Required     |
| PI968 Section II  | Cell ≤1g<br>Battery ≤2g              | Required            | Required                     | Self-briefed     | ≤0.3g<br>2.5 kg net or<br>>0.3g<br>8 cells or<br>2 batteries   | Same as Pax A/C   | Strong outer packaging, 1.2m drop test | Required, protect against short circuit        | On label |          | "Overpack"                             | Mix with other Section II only       | AWB, Alternative written documentation | Not required     | Not required |
| <b>UN 3091 Lithium metal batteries packed with equipment (including lithium alloy batteries)</b>      |                                      |                     |                              |                  |  |                   |  |  |          |          |  |                                      |  |                  |              |
| PI969 Section I   | Cell >1g<br>Battery >2g              | Required            | Required                     | 5-day            | N/A  | 35 kg net         | UN PG II                               | Required, prevent accidental activation        | DG       |          | "Overpack"                             | Mix with other Section I and IA only | DGD                                    | Checklist        | Required     |
| PI969 Section I (continued)   | Cell >1g<br>Battery >2g              | Required            | Required                     | 5-day            | 5 kg net<br>Rigid metal packaging required                     | N/A               | UN PG II                               | Required, prevent accidental activation        | DG       |          | "Overpack"                             | Mix with other Section I and IA only | DGD                                    | Checklist        | Required     |
| PI969 Section II  | Cell ≤1g<br>Battery ≤2g              | Required            | Required                     | Self-briefed     | 5 kg net<br>"1+2 spare"  | 5 kg net          | Strong outer packaging, 1.2m drop test | Required, protect against short circuit        | On label |          | "Overpack"                             | Mix with other Section II only       | AWB, Alternative written documentation | Not required     | Not required |
| <b>UN 3091 Lithium metal batteries contained in equipment (including lithium alloy batteries)</b>     |                                      |                     |                              |                  |  |                   |  |  |          |          |  |                                      |  |                  |              |
| PI970 Section I   | 12g > Cell >1g<br>500g > Battery >2g | Required            | Required                     | 5-day            | 5 kg net   | 35 kg net         | Strong outer packaging                 | Required, prevent accidental activation        | DG       |          | "Overpack"                             | Mix with other Section I and IA only | DGD                                    | Checklist        | Required     |
| PI970 Section II  | Cell ≤1g<br>Battery ≤2g              | Required            | Required                     | Self-briefed     | 5 kg net   | 5 kg net          | Strong outer packaging                 | Required, prevent accidental activation        | On label |          | > 4 cells or 2 batteries<br>"Overpack" | Mix with other Section II only       | AWB, Alternative written documentation | Not required     | Not required |

| Packing Instruction  | Capacity   | UN Testing (UN38.3) | QMS      | Shipper Training | Qty/Pkg Pax A/C | Qty/Pkg Cargo A/C | Outer Packaging        | Inner Packaging                         | Markings     | Labeling     | Overpack | Mix-pack | Documentation                       | Acceptance check | NOTOC        |
|--|--|---------------------|----------|------------------|-----------------|-------------------|------------------------|---|--------------|--------------|----------|----------|-------------------------------------|------------------|--------------|
| <b>BY POST -- UN 3481 Lithium ion batteries contained in equipment (including lithium ion polymer batteries)</b> |  |                     |          |                  |                 |                   |                        |   |              |              |          |          |                                     |                  |              |
| PI967 Section II   | Li-ion<br>Cell ≤20Wh<br>Battery ≤100Wh<br>Not more than 4 cells or 2 batteries | Required            | Required | Self-briefed     | 5 kg net        | 5 kg net          | Strong outer packaging | Required, prevent accidental activation | Not required | Not required | No       | No       | senders name, address and signature | Not required     | Not required |
| <b>BY POST -- UN 3091 Lithium metal batteries contained in equipment (including lithium alloy batteries)</b>     |  |                     |          |                  |                 |                   |                        |   |              |              |          |          |                                     |                  |              |
| PI970 Section II   | Li-metal<br>Cell ≤1g<br>Battery ≤2g<br>Not more than 4 cells or 2 batteries    | Required            | Required | Self-briefed     | 5 kg net        | 5 kg net          | Strong outer packaging | Required, prevent accidental activation | Not required | Not required | No       | No       | senders name, address and signature | Not required     | Not required |