New Requirements on Shipping Lithium Batteries

Presented by Civil Aviation Department

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Overview

- ICAO Working Group on Lithium Batteries
- New PI 965 & 968
- Affected Parties
- Training Requirements
- Packing Requirements
- Document Requirements
- Acceptance Checks
- Pilot's Notification

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ICAO Working Group on Lithium Batteries

- Meeting held in February 2012
- To address the risks associated with transporting lithium batteries
- Reduce the maximum quantities of lithium ion and lithium metal batteries currently permitted under Section II of PI 965 and 968
- Effective date: 1 January 2013
- Transition period: 30 days



New PI 965 & 968

Re-categorized PI 965 & 968 into three sections

Section I Section IA

- Lithium cells or batteries which exceeded the Watt-hour rating or lithium content specified in Section II
- Subject to the full requirements



New PI 965 & 968

Section II Section IB

- Lithium cells or batteries which exceeded the quantities but not the Watt-hour ratings/lithium metal content limits in Section II
- Subject to most of the requirements
- Non-UN specification packagings
- Alternative written documentation, i.e. DGD not required
- Lithium battery handling label + Class 9 hazard label



New PI 965 & 968

Section II Section II

- A package with maximum 8 lithium cells each not exceeding 20 Wh or 1 g lithium content
- A package with maximum 2 batteries each not exceeding 100 Wh or 2 g lithium content
- Excepted from most of the requirements



Affected Parties

- Shippers
- Freight Forwarders
- Aircraft Operators



Training Requirements

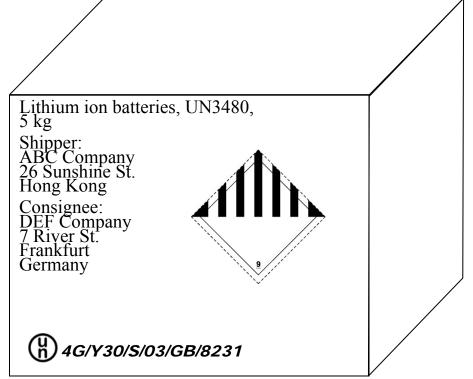
- Shippers & Forwarders consign lithium batteries under Section IA & IB
 - □ Full dangerous goods training
- Shippers & Forwarders consign lithium batteries under Section II
 - □ Adequate instruction



Packing Requirements

Section IA

UN box



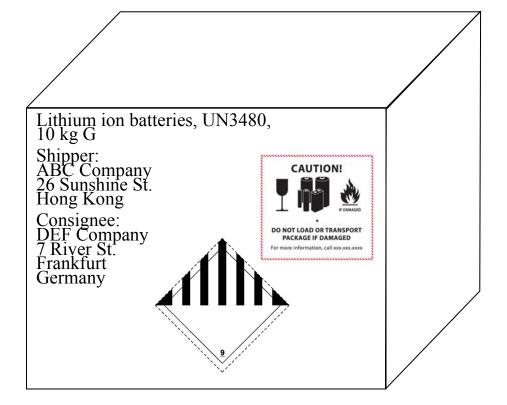
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Packing Requirements

Section IB

Non-UN box withstanding a 1.2 m drop

test



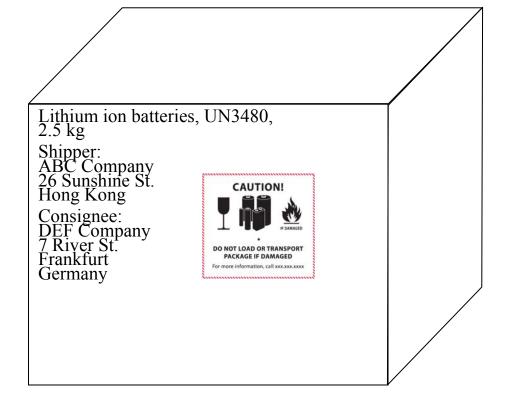


Packing Requirements

Section II

Non-UN box withstanding a 1.2 m drop

test



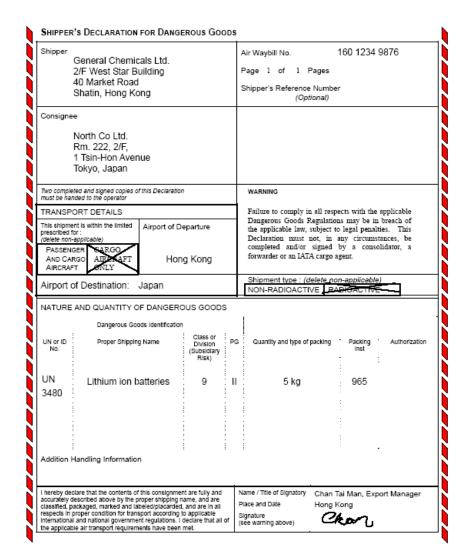


Packing Requirements

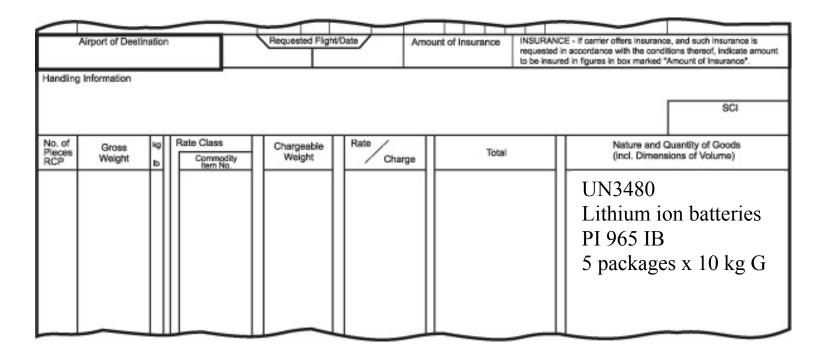
	PI 965		PI 968	
	PAX	CARGO	PAX	CARGO
Section IA	5 kg net	35 kg net	2.5 kg net	35 kg net
Section IB	10 kg G	10 kg G	2.5 kg G	2.5 kg G
Section II	2 batteries ≤ 100 Wh 8 cells ≤ 20 Wh 2.5 kg net ≤ 2.7 Wh		2 batteries \leq 2 g 8 cells \leq 1 g 2.5 kg net \leq 0.3 g	

^{* 5} kg net for Section II of PI 966, 967, 969 & 970

- Section IA
- DGD



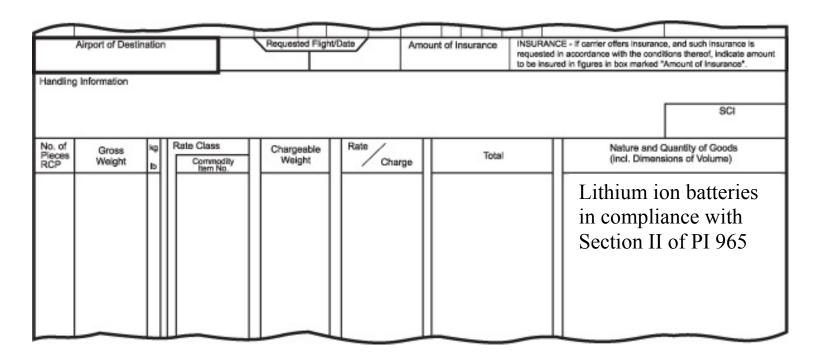
- Section IB
- AWB





- Section IB
- A document with an indication that:
 - □ the package contains lithium metal cells or batteries
 - the package must be handled with care and that a flammability hazard exists if the package is damaged
 - special procedures must be followed in the event the package is damaged, to include inspection and repacking if necessary
 - □ a telephone number for additional information

- Section II
- AWB





- Section II
- A document with an indication that:
 - □ the package contains lithium metal cells or batteries
 - the package must be handled with care and that a flammability hazard exists if the package is damaged
 - special procedures must be followed in the event the package is damaged, to include inspection and repacking if necessary
 - □ a telephone number for additional information



- On Section IA & IB lithium batteries
- DG Checklist





Pilot's Notification

- Section IA & IB lithium batteries
- Location and quantity of lithium batteries on board
- NOTOC

Thank You