

航空公司貨



運聯絡小組

AIR CARGO

2016 DG Awareness Seminar

CLG – DGWG

15 December 2016

HIGHLIGHT OF CHANGES IN IATA DANGEROUS GOODS REGULATIONS

Significant Changes in DGR – Adequate Instructions

- DGR 1.6
 - Lithium battery packing instructions, PI 965 – PI 970, Section II, “Any person preparing or offering cells or batteries for transport must receive adequate instruction on these requirements commensurate with their responsibilities.”
 - IATA set out some guidelines on what an “adequate instruction” should include:
 - Classification of lithium batteries being shipped.
 - Documentation of procedures applied to lithium batteries being shipped.
 - Written work instructions or other documentation.
 - Review and understanding of documented procedures.
 - Instruction records.
 - Refresher instructions provided at a minimum of every two years or as the instructions or regulations are revised.

Significant Changes in DGR – Special Provision on DGD

- DGR 8.1.6.9.4 Step 9 requires a list of Special Provision numbers to be annotated in the authorisation column. Newly added SPs are:
- SP A201: exemption to move lithium ion or metal batteries on passenger aircraft.
- SP A202: conditions to move radiation detectors containing gas in non-refillable cylinders.
- SP A211: conditions to move receptacles containing gas or gas cartridges intended for use in sterilisation devices.
- SP A331: lithium ion cells or batteries to be transported at greater than 30% state of charge.

Significant Changes in DGR – Title of Signatory & Place Signed on DGD



- DGR 8.1.6.13 and 8.1.6.14 required that the title of the person signing the declaration form and the date signing the declaration form must be entered (old version).
- This requirement has been updated and the title of the signatory and place the declaration form is signed becomes obsolete.

LATEST CHANGES LITHIUM BATTERIES REGULATIONS

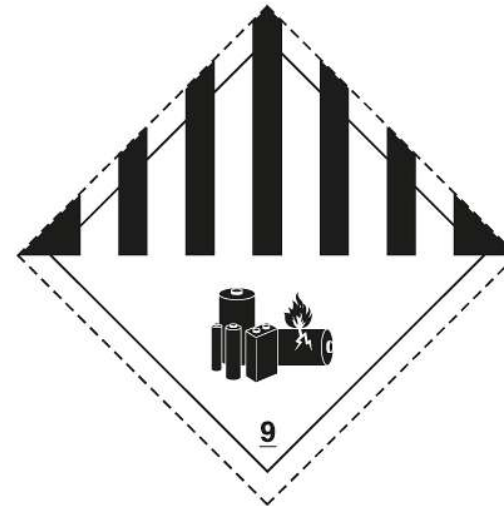
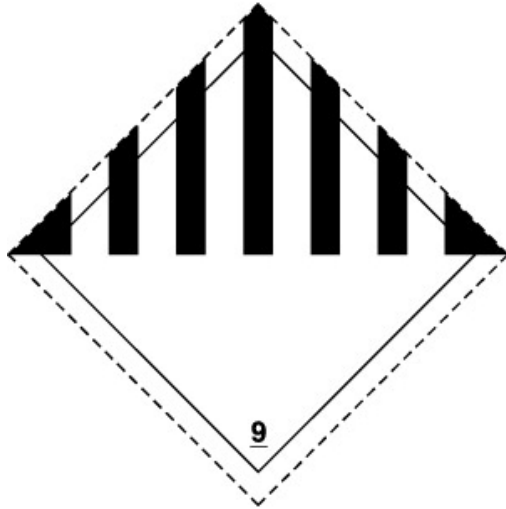
Changes in Special Provision A181

- DGR SP A181 added clarity on the classification, marking and labelling requirements when a package contains a combination of lithium batteries contained in equipment and lithium batteries packed with equipment.
- The total weight of lithium batteries contained in any package must not exceed the limits for passenger aircraft or cargo aircraft.
- Must be marked UN 3091 or UN 3481, lithium metal or ion batteries packed with equipment.
- DGD must indicate both UN 3091 or UN 3481, lithium metal or ion batteries packed with equipment (if applicable).

Changes in Lithium Battery Packing Instructions

Category	Applicable PI	Applicable Section	Changes
Labelling / Marking Requirement	PI 965, PI 968	Section IA, IB	New Class 9 Lithium Battery Label 
	PI 965, PI 968	Section IB	New Lithium Battery Mark 
	PI 966, PI 967, PI 969, PI 970	Section II	
	PI 967, PI 970	Section II	Lithium Battery Handling Label / Mark is only not required when the consignment contains no more than 2 packages of no more than 4 cells / 2 batteries
Documentation Requirement	PI 965, PI 968	Section IB	Lithium Battery Document (with the 4 bullet points) is no longer required
	PI 965 – PI 970	Section II	
Training Requirement	PI 965 – PI 970	Section II	Guidelines on the elements of “adequate instructions” (DGR 1.6)

Changes in Lithium Battery Packing Instructions



HIGHLIGHTS OF LITHIUM BATTERY PACKING INSTRUCTIONS

Lithium Ion & Metal Cells & Batteries (UN 3480, UN 3090)



UN 3480, PI 965

Section IA, IB, II

- ✧ State of Charge (SoC)
 - Not exceeding 30%
- ✧ Cargo Aircraft ONLY

UN 3480, PI 965, UN 3090, PI 968, Section II

- ✧ No more than ONE PACKAGE in a single consignment
- ✧ Packages must be offered to airlines separately from other cargo
- ✧ Must not be loaded into a ULD
- ✧ Overpack, no more than ONE PACKAGE of Section II lithium batteries in an overpack

Lithium Ion & Metal Cells & Batteries (UN 3480, UN 3090)



UN 3480, PI 965

Section IA, IB, II

✧ State of Charge (SoC)

Not exceeding 30%

ONLY

UN 3090, PI

ONE PACKAGE

per Consignment

Must be offered to

separately from other

cargo

✧ Must not be loaded into a ULD

✧ Overpack, no more than ONE PACKAGE of Section II lithium batteries in an overpack

**NO BUP
NO CONSOL
ONLY 1 PACKAGE per
Consignment**

Lithium Cells & Batteries Packed with Equipment (UN 3481, UN 3091)



UN 3481, PI 966,

UN 3091, PI 969

Section I, II

✧ Definition of Equipment

- The device for which the lithium cells or batteries will provide electrical power for its operation

Lithium Cells & Batteries Contained in Equipment (UN 3481, UN 3091)



UN 3481, PI 967,
UN 3091, PI 970
Section I, II

✧ Definition of Equipment

- The device for which the lithium cells or batteries will provide electrical power for its operation

✧ Labelling / Marking Requirement

- Only consignments containing two packages or less where each package contains no more than four cells or two batteries installed in equipment do not require the lithium battery handling label

What is a Consignment?

“One or more packages of dangerous goods accepted by an operator from one shipper at one time and at one address, receipted for in one lot and moving to one consignee at one destination address.”

	MAWB	HAWB	
Scenario 1	1 MAWB	Nil	
Scenario 2	1 MAWB	2 HAWBs HAWB 1 = Shipper A to Consignee A HAWB 2 = Shipper A to Consignee B	2
Scenario 3	1 MAWB	2 HAWBs HAWB 1 = Shipper A to Consignee A HAWB 2 = Shipper B to Consignee A	2
Scenario 4	1 MAWB	2 HAWBs HAWB 1 = Shipper A to Consignee A HAWB 2 = Shipper A to Consignee A	1

How about I issue multiple MAWBs, e.g. 100 MAWBs? Is that equivalent to 100 consignments?

HONG KONG BEST PRACTICE (BP 014)

CLG – HAFFA Lithium Battery Best Practice

- 5 Parts
 - Lithium Ion / Metal Batteries (UN 3480 / UN 3090)
 - Lithium Ion / Metal Batteries Packed with & Contained in Equipment (UN 3481 / UN 3091)
 - Lithium Battery Label & Mark
 - “Adequate Instruction”
 - Shipper’s Letter of Instruction

HIGHLIGHT OF DANGEROUS GOODS CARRIED BY PASSENGERS

Provisions for Dangerous Goods Carried by Passengers

Item	Approval from operator	Permitted in or as checked baggage	Permitted in or as carry-on baggage
Dry Ice	YES	No more than 2.5 kg per person, as refrigerant for perishables. Package must permit the release of gas.	
Spare / loose batteries, for PEDs (including power bank)	NO	NO	Must be individually protected
Toiletry Articles (e.g. perfume)	NO	No more than 2 L net quantity, each single article must not exceed 0.5 L	
Lighters	NO	On One Person's ONLY	

Provisions for Dangerous Goods Carried by Passengers

Item	Approval from operator	Permitted in or as checked baggage	Permitted in or as carry-on baggage
Lithium metal batteries, no more than 2 g lithium content	NO	NO	Must be individually protected
Lithium ion batteries, no more than 100 Wh			
Lithium ion batteries, exceeding 100 Wh but no more than 160 Wh	YES	NO	No more than 2 pieces per person
Lithium battery PED, no more than 2 g lithium content or 100 Wh	NO	YES	YES
Lithium battery PED, exceeding 100 Wh but no more than 160 Wh	YES	YES	YES

SHIP SAFELY

THANK YOU