

Mar. 02, 2009

Dear Valued Customers

Japan Airlines International Co.,Ltd.
ALL NIPPON AIRWAYS CO.,LTD.
NIPPON CARGO AIRLINES CO.,LTD.

Handling of Lithium Metal and Lithium Ion batteries following Amendment of IATA Regulations (Amendment)

[This letter has been revised in compliance with the addendum to Dangerous Goods Regulations 50th edition, posted on 23 December, 2008 and the guidance document posted on 06 February, 2009 by the IATA. The amended items in this letter are highlighted in blue to help identify the amendment.](#)

Thank you for your understanding and cooperation for flight safety.

Regulations on lithium batteries in IATA Dangerous Goods Regulations 50th Edition (hereinafter IATA DGR) to take force on January 1, 2009 will be amended. Basically, handling is performed in conformance with IATA DGR, but we expect cases where handling may not be uniform among carriers due to difference in interpretation. To ensure flight safety and smooth handling, we have unified handling as described below. We would appreciate your understanding and cooperation.

1. Transport of lithium batteries handled as Part 1 of the Packing Instructions, NOT RESTRICTED

1) Please check requirement in Part 1 of the applicable Packing Instruction (PI 965, 966, 967, 968, 969 and 970).

2) Information on Air Waybill

Please fill in the AWB as below. If it is difficult to complete due to space, etc. you may use a separate sheet. When doing so, write all items from (a) to (d). In this case, write (a) on the AWB repeatedly.

In case of 4, 7 on Attachment 1, please write (a) on the AWB. (This provision is not shown in DGR. However, we would like you to declare that the packages are properly prepared in accordance with Part 1 for smooth handling.)

(a) Indicate that the package contains Lithium ion (or metal or ion and metal) Batteries as below .

Lithium ion batteries or cells, NOT RESTRICTED as per PI 9xx Part1; or

Lithium metal batteries or cells, NOT RESTRICTED as per PI 9xx Part1; or

Lithium ion and metal batteries or cells, NOT RESTRICTED as per PI 9xx Part1.

(b) Considering the package must be handled with care due to the risk of fire if the package is damaged, indicate as in the following statement.

e.g.) "The package must be handled with care and a flammability hazard exists, if the package is damaged."

(c) Write handling procedures, etc. in case the package is damaged, according to applicable Packing Instruction.

e.g.) "Do not damage or mishandle this package. If package is damaged, batteries must be protected so as to prevent short circuit."

(d) Write a telephone number for additional information.

e.g.) Contact TEL Number : 81-476-33-XXXX (Japan)

1-800-424-XXXX 1-703-527-XXXX (US) etc.

3) Drop test of package

If there is a drop test requirement in the Packing Instruction, use a packaging that has passed the drop test (1.2m). Especially, in case that battery packed with equipment in the same packaging, it is mandatory to conduct a drop test including the equipment. Please retain the results of the test. If there is a trouble or if an incident/accident occurs, you may be asked to submit the test results by the carrier or the competent authority.

4) Affixing lithium battery handling label

Each package must be labeled with a lithium battery handling label indicating (a) Lithium ion battery (b) Lithium metal battery (c) Lithium ion and metal batteries.

When affixing Lithium Battery Labels with IATA DGR7.4.8 FIGURE 7.4.I specifications, they must not be folded or affixed in such a manner that parts of the same label appear on different faces of the

package. Please note that affixing of labels is exempted, when transporting batteries contained in equipment, in case that each package containing not more than four cells or not more than two batteries in equipment. (Attachment 1, item 4, 7)

5) Indication of Watt-hour

As for lithium ion batteries (100Wh and below), it is necessary to indicate Watt-hour rating on the battery case exterior. However, for lithium ion batteries manufactured before December 31, 2008, indication is exempted until December 31, 2010.

~~6) Duplication of old marking and new labeling~~

~~For duplication of old marking and new labeling during transition period which Japanese customers concern, there are no problems of overlapping markings required under current regulations until December 31, 2008 (including labels) and new labels. However, from/after January 1, 2009, please affix new labels only as soon as possible. (The overlapping period is not specified.) When old and new markings and labels overlap, please take care so that there are no discrepancies. (e.g. one marking indicates Lithium ion Battery, the other Primary Lithium Battery)~~

7) Package and Overpack

Package means the package, ready for carriage, contains "Lithium ion and/or metal Battery(ies)" or "Lithium ion and/or metal Battery(ies) packed with equipment(s)" or "Lithium ion and/or metal Battery(ies) contained in equipment(s)". The package must be suitable for labeling and handling for Air transport, and must meet all requirements in Part 1 of the applicable Packing Instructions (including drop test if required).

If one or more outer packaging is packed in one outer enclosure or containment, it will be considered as "Overpack" in accordance with the relevant provisions in the IATA DGR, even if the batteries in question are transported under the scope of Part 1 in an "Exempt" scenario.

In case of overpack, the number of overpacks is number of pieces on the AWB.

Each individual package placed in an overpack must be labelled with the Lithium Battery Label.

An overpack must be marked with the word "Overpack" and labelled with the Lithium Battery Label, unless the label(s) on the package(s) inside the overpack are visible.(PI966 and PI 969 are also subject to this provision in accordance with the guidance documents by the IATA)

8) Misc.

Please observe State & Operator Variations. Especially, as regards USG-02, UN3090 - (primary /non-rechargeable) lithium metal batteries and cells are forbidden for transportation aboard passenger-carrying aircraft and UN3091 – (primary /non-rechargeable) lithium metal batteries and cells packed with or contained in equipment that do not conform to the provision concerned of 49CFR are forbidden for transportation aboard passenger-carrying aircraft.

2. Transport of lithium batteries handled as Part 2 of the Packing Instructions

Please check requirements in applicable Packing Instruction (PI 965, 966, 967, 968, 969 and 970), Part 2.

3. For more details, please contact each operator.

4. Attachment 1: Guide for Lithium Metal and Lithium Ion Batteries Handling(NOT RESTRICTED, Labeling, Marking and Completion of AWB)

end

Requirements for "NOT RESTRICTED"			
	Packed Only Battery	Batteries Packed with Equipment	Batteries contained in Equipment
Ion Batteries	1 (PI 965)	2 (PI 966)	More than 4 cells or 2 batteries 3 (PI 967)
			Not more than 4 cells or 2 batteries 4 (PI 967)
Metal Batteries	5 (PI 968)	6 (PI 969)	7 (PI 970)
			More than 4 cells or 2 batteries 8 (PI 970)

Lithium Battery Label



IATA DGR 50th Edition FIGURE 7.41

Category	Wh Marking on the outside of the battery case	Lithium Battery Handling Label	Documentation Requirements
1	Yes. Only for batteries less than or equal 100Wh. Batteries manufactured before 01JAN 2009 are excepted until 31DEC2010	Yes	(a)The package containing lithium ion batteries. (b)The package must be handled with care, and that a flammability hazard exists if the package is damaged. (c)Special procedures should be followed in the event the package is damaged, to include inspection and repacking if necessary. (d)A telephone number for additional information.
2			
3			
5			
6	Not Required		(a)The package containing lithium metal batteries. (b)The package must be handled with care, and that a flammability hazard exists if the package is damaged. (c)Special procedures should be followed in the event the package is damaged, to include inspection and repacking if necessary. (d)A telephone number for additional information.
8			
7			
4	Yes. Only for batteries less than or equal 100Wh. Batteries manufactured before 01JAN 2009 are excepted until 31DEC2010	NO	(a)The package containing lithium ion batteries and/or lithium metal batteries. (Although it is not required by the IATA DGR, please write it for smooth handling.)