



IATA Dangerous Goods Regulations

59th Edition (English)
Effective 1 January 2018

ADDENDUM

Posted 22 December 2017

Users of the IATA Dangerous Goods Regulations are asked to note the following amendments and corrections to the 59th Edition, effective from 1 January 2018, except the changes in Table 2.3.A and 2.3.5.9, which become effective 15 January 2018.

Where appropriate, changes or amendments to existing text have been highlighted (in yellow - PDF or grey - hardcopy) to help identify the change or amendment.

New or Amended State Variations (Section 2.8.2)

In 2.8.1.3 List:

After Egypt

Add: Ethiopia

ETG

Add new: **ETG (Ethiopia)**

The transport of dangerous goods to, from, within or transiting through Ethiopia for which a Shipper's Declaration is required must comply with the following.

ETG-01 Emergency Telephone number:

1. The Shipper's Declaration required by these Regulations must contain a telephone number by means of which emergency response information can be obtained in case of an incident and/or accident involving the dangerous goods being transported.
2. This telephone number must be available 24 hours a day and must include country and area code preceded by the words "Emergency Contact" or "24-hour number" and must be shown on the Shipper's Declaration in the "Additional Handling Information" box, outside of the package and on the air waybill in the "Handling Information" box.
3. This telephone number must be monitored at all times by a person who:
 - a) is knowledgeable concerning the hazards and characteristics of the dangerous goods being transported;
 - b) has comprehensive emergency response and accident mitigation information for the dangerous goods; and
 - c) can immediately call upon a person who possesses such knowledge and information.

ETG-02 Prior to transporting all kinds of dangerous goods to Ethiopia, in case where Ethiopian Airlines is the ground handling agent, prior approval should also be secured from Manager Cargo Import Traffic Handling at: MgrCI@ethiopianairlines.com.

ETG-03 Except for Class 9 dangerous goods, the shipper must provide the Material Safety Data Sheet (MSDS) upon tendering dangerous goods for transport. The MSDS must be written in English and shall include all relevant transport information.

ETG-04 The operator must be responsible to coordinate with shipper and consignee to return any remaining unclaimed, damaged and/or leaking dangerous goods to the State of origin.

New or Amended Operator Variations (Section 2.8.4)

In 2.8.3.4 List:

After Air Astana

Add: Air Atlanta Icelandic

CC

After Sky Regional Airlines

Add: Skywork Airlines

SX

Amend 5X (UPS Airlines)

5X-02 Small Package Service—Origins or Destinations outside U.S.: UPS International Small Package service rules and restrictions apply to all dangerous goods shipments with an origin and/or destination outside of the USA. Such shipments, including Biological Substances, Category B, will be accepted by contract only (see 5X-01 above for USA domestic shipments). Countries available for service are shown at the following web site in the column for “Biological Substances, Category B:

Website: <https://www.ups.com/us/en/help-center/packaging-and-supplies/special-care-shipments/international-dangerous-goods/approved-countries.page>

~~Packages requiring an IATA Shipper's Declaration for Dangerous Goods must not exceed 30 kg gross weight.~~
~~When shipping packages requiring an IATA Shipper's Declaration for Dangerous Goods, combination packagings must be used for shipments made under passenger aircraft provisions. Single packagings may only be used for “Cargo Aircraft Only” (CAO) shipments. Packages requiring a Shipper's Declaration must not exceed 30 kg gross weight.~~ When applicable, not more than three compatible different dangerous goods may be contained in one outer packaging (5.0.2.11).

The following classes/divisions of Dangerous Goods are prohibited from UPS international Small Package service:

- Class 1 (Explosives)
- Division 2.3 (Toxic Gas)
- Substances that require the Keep Away From Heat label, or are subject to Special Provision A136
- Division 4.2 (Spontaneously Combustible)
- Division 4.3 (Dangerous When Wet)
- Division 5.2 (Organic Peroxide)
- Division 6.1—Substances requiring a “Toxic” label other than those assigned to P.G. III, which must display the marking “PGIII” adjacent to the “Toxic” label
Shipments of UN 3506, Mercury contained in manufactured articles will be accepted only when the packages do not require a “Toxic” sub-risk label.
- Division 6.2 (Infectious Substances, Category A)
- Class 7—Substances requiring a “Radioactive” White–I, Yellow–II, Yellow–III, or Fissile label.
 - Radioactive Material, Excepted Package shipments are also prohibited (except between the U.S. and Canada).
- Class 9—Shipments of UN 2807, Magnetized material which conform to Packing Instruction 953 are limited to origins and destinations within the UPS International Dangerous Goods (IDG) network. A listing of origins and destinations authorized for IDG may be found at the following link: <https://www.ups.com/us/en/help-center/packaging-and-supplies/special-care-shipments/international-dangerous-goods/approved-countries.page>. Additionally, such shipments must be labelled in accordance with Packing Instruction 953 and documented in one of the following ways:
 - Identified as “Magnetized material” in a Package Reference field on the UPS Shipping Label; or
 - Accompanied by a written document, affixed directly to the outside of the package or contained in a resealable envelope on the package, identifying the contents as “Magnetized material”.
- Complete information about UPS Small Package International Dangerous Goods service, including specific limitations per package, may be found at the link for UPS GUIDE FOR SHIPPING INTERNATIONAL DANGEROUS GOODS at the site identified in variation 5X-01.

- All permitted Dangerous Goods in Excepted Quantities are accepted. UPS class/division restrictions do not apply to Dangerous Goods in Excepted Quantities.

Shipments of UN 3480, Lithium ion batteries and UN 3090, Lithium metal batteries are accepted only when prepared under Section IA or IB of the relevant Packing Instruction. Shipments containing UN 3090 or UN 3480 prepared according to Section II are not accepted. Refer to 5X-08 for pre-approval requirements related to shipments of UN 3090.

(see 1.3.2, 8.1.6.9.1 and 10.8.3.9.1).

Amend **AC (Air Canada)**

~~**AC-04** Aircraft engines shipped under special provision A70, must be tendered with an original copy of the purged certificate and signed by the company that performed the maintenance or overhaul (see Packing Instruction 950). Not used.~~

~~**AC-06** The number of packages of Section II Lithium Batteries in Packing Instructions 966, 967, 969 and 970 must be indicated on the Air Waybill. The number of packages marked with the lithium battery mark in compliance with Section II of the packing instructions 966, 967, 969 and 970, must be added in the "Nature and quantity of goods" box of the air waybill.~~

Amend **AF (Air France)**

AF-05 For air waybills with more than one piece in the "Number of pieces" box, the number of packages marked with the lithium battery mark / lithium battery handling label in compliance with the section II of the packing instructions 965, 966, 967, 968, 969 and 970 must be added, for each Packing Instruction concerned, in the "Nature and Quantity of goods" box of the air waybill.

Amend **AR (Aerolineas Argentinas)**

Add new

- ✦ **AR-15** Fissile radioactive material will not be accepted for transport (see 10.5.13).

Amend **AU (Austral Lineas Aereas)**

Add new

- ✦ **AU-15** Fissile radioactive material will not be accepted for transport (see 10.5.13).

Amend **BI (Royal Brunei Airlines)**

BI-01 The shipper must provide a 24-hour emergency telephone number of a person/agency, who is knowledgeable of the hazards, characteristics and actions to be taken in case of accident or incident concerning each of the dangerous goods being transported. The telephone number, including the country and area code, preceded by the words Emergency Contact or 24-Hour Number ~~must~~should be shown in the Additional Handling Information box of the DGD and on the package, e.g. Emergency Contact +673 212 345 67 (see 8.1.6.11 and 10.8.3.11).

Amend **BT (airBaltic)**

~~**BT-02** All Radioactive materials including excepted quantity RRY, RRW and RRE are prohibited from carriage as cargo and in mail on airBaltic aircraft. Not used~~

Add new

CC (Air Atlanta Icelandic)

CC-01 Lithium ion cells and batteries (UN 3480), including those approved by an appropriate authority under special provisions A88 or A99, packed in accordance with PI 965 will not be accepted for carriage on Air Atlanta Icelandic aircraft, with the exception of those consigned by pre-approved shippers. This prohibition does not apply to:

- Lithium ion cells and batteries packed with or contained in equipment (UN 3481) in accordance with PI 966 or PI 967.

CC-02 Lithium metal cells and batteries (UN 3090), including those approved by an appropriate authority under special provisions A88 or A99, packed in accordance with PI 968 are prohibited from carriage on Air Atlanta Icelandic aircraft. This prohibition does not apply to:

- Lithium metal cells and batteries packed with or contained in equipment, UN 3091, in accordance with PI 969 and PI 970.

Amend **CI (China Airlines)**

CI-01 The following dangerous goods will not be accepted for carriage as cargo on China Airlines' passenger flights:

1. Class 1 to Class 8, except for UN1072 (in compliance with S.P. A302), UN2908, UN 2909, UN2910, UN2911, UN3164 (in compliance with P.I.208 (a), and UN3373.
2. Fully regulated lithium ion batteries, **UN 3481** (Class 9) as per section I of PI 966-967 (RLI).
3. Fully regulated lithium metal batteries, **UN 3091 (Class 9)** as per section I of PI 969-970 (RLM).
4. **UN 3171 Battery-powered vehicle (Class 9) powered by lithium batteries.**

Note:

Above prohibitions do not apply to CI company material.

CI-03 Dangerous goods in consolidations will not be accepted for carriage, except for:

- (a) consolidations having one master air waybill with one or more house air waybill(s) containing only dangerous goods; or
- (b) consolidations containing the following dangerous goods and general cargo:
 - UN 1845 Carbon dioxide, solid (Dry ice) when used as a refrigerant for non-dangerous goods;
 - UN 2807 Magnetized material as per PI 953 and with field strength no more than 0.418 A/m or 0.00525 Gauss measured at a distance of 4.6 m;
 - ID 8000 Consumer commodity/UN 1266 Perfumery product;
 - **UN 3481/UN 3091 Lithium ion/metal batteries in compliance with Section II of PI 966/967/969/970.**

CI-07 Dangerous goods offered for transport under State exemptions or **under State approval in accordance with special provision A1 or A 2 approvals (e.g. as required by Special Provision A1, A2, A106, etc.)** will not be accepted for carriage.

CI-09 The following dangerous goods will not be accepted for carriage as cargo by China Airlines' aircraft:

- (a) Lithium Ion cells and batteries (UN 3480) prepared in accordance with Section II of Packing Instruction 965.
- (b) Lithium Metal cells and batteries (UN 3090), prepared in accordance with Section IA, IB and II of Packing Instruction 968.
- (c) **UN 3480 Section IA/IB of PI 965, UN 3481 Section I of PI 966/PI 967 and UN 3091 Section I of PI 969/PI 970 packed with any other dangerous goods in same outer packaging, or overpacked with any other dangerous goods. This prohibition does not apply to equipment or machinery containing lithium batteries and other dangerous goods.**

Note:

*Above prohibitions **does do** not apply to CI company material.*

Amend EI (Aer Lingus)

EI-02 ~~Not used.~~ Unless specifically approved by Aer Lingus, passengers and crew are limited to a maximum of 4 spare lithium batteries up to 100 Wh per person. Spare batteries are restricted to 'carry on' cabin baggage only (see 2.3.5.9).

Amend EY (Etihad Airways)

EY-04 UN 3090 Lithium metal batteries. Lithium metal cells and batteries are prohibited from carriage as cargo on all Etihad aircraft. This applies to Section IA, IB and Section II of Packing Instruction 968. UN 3091 Lithium metal batteries. Lithium metal cells and batteries are prohibited from carriage as cargo on all Etihad passenger aircraft. This applies to Section I of Packing Instructions 969 & 970.

This prohibition does not apply to:

- lithium metal cells and batteries packed with or contained in equipment (UN 3091) in accordance with Section II of PI 969 and PI 970 on Etihad cargo aircraft; or
- lithium batteries (rechargeable and non-rechargeable) covered by the Provisions for Dangerous Goods Carried by Passengers or Crew (see 2.3.2 to 2.3.5 and Table 2.3.A).

Amend G3 (GOL Airlines)

G3-01 The following classes with primary or secondary risk will not be shipped by air unless

GOL gives prior approval:

- Class 1 - Explosives
- Class 2 - Gases
- Class 3 – Flammable liquids
- Class 4 – Flammable solids
- Class 7 – Radioactive materials
- UN3091 – Lithium metal batteries contained in equipment

Requests for approval must be sent previously to the following e-mail address:
gr_controledequalidadecgo@voegol.com.br

G3-02 ~~Infectious substances will be accepted subject to prior arrangements in accordance with the following:~~
Division 6.2, category B shipments must comply with the following requirements:

- the shipper must provide proof that the shipment is can be legally accepted allowed for transport and complies with all policies from the States involved;
- the shipper must send to the airline a certificate signed by a physician, scientist or a similar professional, stating that the shipment complies with all requirements regarding biological substances from category B;

Division 6.2, Category A, infected animals will not be allowed for transportation.

G3-04 The shipper must provide a 24-hour emergency telephone number of a person / agency who knowledgeable of the hazards, characteristics and actions to be taken in case of an accident or incident concerning each of the dangerous goods being transported. The telephone number, including the country and area code, preceded by the words "Emergency Contact" "24-Hour Emergency Number" or equivalent text in Portuguese, must be inserted in the Shipper's Declaration, preferably in the "Handling information" box.

This is not required for the following:

- excepted quantities;
- limited quantities;

- dry ice; and
- consumer commodities.

G3-05 ~~Dangerous goods must not be consolidated with non-dangerous goods. Not used.~~

G3-07 UN 3091 (Lithium metal batteries contained in or packed with equipment) are prohibited from carriage as cargo on passenger aircraft. This prohibition does not apply to: Lithium ion cells and batteries packed with or contained in equipment (UN 3481) in accordance with PI 966 or PI 967. Electronic cigarettes containing lithium batteries are prohibited for transport as cargo on GOL Aircraft.

UN 3480 (lithium-ion battery), UN 3090 (lithium-metal battery) and electronic cigarettes that contain lithium battery are not allowed for transportation as cargo. Used lithium-ion batteries are not accepted for transport.

G3-08 Wheelchairs with spillable or wet batteries are accepted only if the battery has been removed from the wheelchair and packed according to 2.3.2.3 and 9.3.14.

GOL sets additional restrictions regarding the “Provisions for Dangerous Goods Carried by Passengers or Crew” (Table 2.3.A). Request our edition by e-mail: gr-controldequalidadecgo@voegol.com.br

Add new

G3-09 Dry ice shipments are limited to 50 kg per package and 500 kg per flight.

Amend **KM (Air Malta)**

KM-01 Small gaseous oxygen or air cylinders required for medical use are not permitted in passenger checked or carry-on baggage. Should a passenger require supplementary oxygen, a 48 hrs prior request must be made to Air Malta.

Medical Help DeskTel: +356 22 999 296, or e-mail: medical.airmalta@centrocom.eu
medical.airmalta@airairmalta.com

Amend **OM (MIAT—Mongolian Airlines)**

OM-05 The carriage of Carbon dioxide, solid (dry ice) UN 1845 is limited to a net weight of 200 kg per B767-300 and B737-800 aircraft.

✖ **OM-08** ~~Except for ID 8000, Consumer commodity, dangerous goods in limited quantities (“Y” packing instructions) will not be accepted for carriage (See Subsection 2.7).~~

Note:

The above requirement does not apply to Company Material.

Class 7—Radioactive material will not be accepted for carriage (see 10.10.2).

Note:

The above requirement does not apply to UN 2911 as MIAT-Mongolian Airlines Company Material.

OM-09 ~~Dangerous goods in consolidations will not be accepted for carriage (See 1.3.3, 8.1.2.4, 9.1.8 and 10.8.1.5). Dangerous goods in Packing Group I will not be accepted for carriage.~~

Note:

The above restriction does not apply to MIAT-Mongolian Airlines Company Material.

OM-10 ~~Salvage packaging will not be accepted. Dangerous goods listed in the list of high consequence dangerous goods will not be accepted for carriage.~~

Note:

The above restriction does not apply to MIAT-Mongolian Airlines Company Material.

OM-11 ~~Class 7—Radioactive material will not be accepted for carriage (See 10.10.2).~~

Note: The above requirement does not apply to UN 2911 as MIAT-Mongolian Airlines Company Material.

Lithium ion batteries as follows will not be accepted for carriage as cargo:

- UN3481-Lithium ion and or lithium polymer cells and batteries packed with or contained in equipment, prepared in accordance with Section I of Packing Instructions 966 and 967.

Note:

The above restriction does not apply to MIAT-Mongolian Airlines Company Material.

From OM-12 to OM-20 show as “Not used”.

Amend PG (Bangkok Airways)

PG-01 Dangerous goods, as defined by these Regulations, will not be accepted for carriage, with the exception of these articles and substances permitted for passengers and crew (see 2.3 and Table 2.3.A). Not used.

PG-02 Dangerous Goods CARGO, MAIL and COMAT will not be accepted. Carbon dioxide solid/Dry Ice maximum of 200 kg per flight, when used as refrigerant will be accepted. Not used.

PG-03 Dangerous Goods to provide medical aid to a patient during flight will be accepted with the condition of IATA DGR 1.2.7.1(a). Not used.

Note:

Contact for additional information, evaluation or operator approval is: email: dgacceptance@bangkokair.com

Amend QK (Jazz Aviation LP)

QK-04 Aircraft engines shipped under special provision A70, must be tendered with an original copy of the purged certificate and signed by the company that performed the maintenance or overhaul (see Packing Instruction 950). Not used.

QK-06 The number of packages of Section II Lithium Batteries in Packing Instructions 966, 967, 969 and 970 must be indicated on the Air Waybill. The number of packages marked with the lithium battery mark in compliance with Section II of the packing instructions 966, 967, 969 and 970, must be added in the “Nature and quantity of goods” box of the air waybill.

Amend RH (Hong Kong Airlines)

- ⚠ **RH-02** Excepted packages of Class 7 radioactive materials, including all types of excepted packages will not be accepted for carriage.

Amend RS (Sky Regional Airlines)

RS-04 Aircraft engines shipped under special provision A70, must be tendered with an original copy of the purged certificate and signed by the company that performed the maintenance or overhaul (see Packing Instruction 950). Not used.

RS-06 The number of packages of Section II Lithium Batteries in Packing Instructions 966, 967, 969 and 970 must be indicated on the Air Waybill. The number of packages marked with the lithium battery mark in compliance with Section II of the packing instructions 966, 967, 969 and 970, must be added in the “Nature and quantity of goods” box of the air waybill.

Amend RV (Air Canada Rouge)

RV-04 Aircraft engines shipped under special provision A70, must be tendered with an original copy of the purged certificate and signed by the company that performed the maintenance or overhaul (see Packing Instruction 950). Not used.

RV-06 The number of packages of Section II Lithium Batteries in Packing Instructions 966, 967, 969 and 970 must be indicated on the Air Waybill. The number of packages marked with the lithium battery mark in compliance with Section II of the packing instructions 966, 967, 969 and 970, must be added in the “Nature and quantity of goods” box of the air waybill.

Add new **SX (Skywork Airlines)**

SX-01 The shipper must provide 24-hour emergency telephone number of a person who is knowledgeable of the hazard, characteristics and actions to be taken in case of an accident or incident. The telephone number must include the country and area code preceded by the words "Emergency Contact" or "24-hour number", must be inserted on the Shipper's Declaration of Dangerous Goods, preferably in the "Handling information" box.

A 24-hour emergency telephone is not required for shipments that do not require a Shippers Declaration for Dangerous Goods.

✈ **SX-02** The following radioactive materials will not be accepted for carriage:

UN Number	Description
UN 2919	Radioactive material, transported under special arrangement non-fissile or fissile excepted
UN 2977	Radioactive material, uranium hexafluoride, fissile
UN 3321	Radioactive material, low specific activity (LSA-II) non-fissile or fissile excepted
UN 3322	Radioactive material, low specific activity (LSA-III) non-fissile or fissile excepted
UN 3324	Radioactive material, low specific activity (LSA-II), fissile
UN 3325	Radioactive material, low specific activity (LSA-III), fissile
UN 3326	Radioactive material, surface contaminated objects (SC0-I or SC0-II), fissile
UN 3327	Radioactive material, Type A package, fissile, non-special form
UN 3328	Radioactive material, Type B(U) package, fissile
UN 3329	Radioactive material, Type B(M) package, fissile
UN 3330	Radioactive material, Type C package, fissile
UN 3331	Radioactive material, transported under special arrangement, fissile
UN 3333	Radioactive material, Type A package, special form, fissile

SX-03 The following items will not be accepted for carriage on Skywork Airlines flights as cargo:

- UN 3091 Lithium metal batteries packed with equipment - PI969, Section I
- UN 3091 Lithium metal batteries contained in equipment - PI970, Section I

SX-04 Mercurial barometers or thermometers will not be accepted for carriage in baggage, except a small medical or clinical thermometer for personal use when in its protective case.

SX-05 Camping stoves (gas or fuel) will not be accepted for carriage in baggage. This variation applies also to used camping stoves which have been thoroughly cleaned.

Amend **TK (Turkish Airlines)**

TK-06 ~~All dangerous goods classes and radioactive materials will not be accepted in airmail (see 2.4 and 40.2.2). Not used.~~

Amend **UL (Srilankan Airlines)**

Add new

UL-08 Small lithium battery powered vehicles are prohibited as carry-on or checked in baggage. This prohibition applies but is not limited to air wheels, solo wheels, balance wheels and hover boards.

Amend **WY (Oman Air)**

WY-04 The carriage of Limited Quantities of dangerous goods ("Y" packing instructions) is not permitted (see Subsection 2.7 and all "Y" Packing Instructions) except for ID 8000 and UN 1266.

Amend **XW (NokScoot Airlines)**

XW-01 Dangerous goods, as defined by these regulations, will not be accepted for carriage, with the exception of those permitted for passengers and crew (see Subsection 2.3 and Table 2.3.A) according to NokScoot's Provisions for Dangerous Goods carried by Passengers or Crew.

Add new

XW-02 Dangerous goods will not be accepted in air mail which include items permitted under 2.4.2 (see 2.4 and 10.2.2).

XW-03 The following dangerous goods permitted in passenger baggage as per 2.3 and Table 2.3.A are forbidden on NokScoot flight as per the detail below:

- ammunition in checked baggage (2.3.2.1);
- electronic cigarettes including e-cigars and other personal vaporizers containing batteries are banned by Thai law (2.3.5.17);
- fuel cell and fuel cell cartridges, spare (2.3.5.10);
- hair curlers containing hydrocarbon gas (2.3.5.8);
- lithium batteries: Security-type equipment containing lithium batteries (2.3.2.6);
- oxygen or air, gaseous, cylinders for medical use (2.3.4.1) are not permitted in passenger checked or carry-on baggage. Nokscoot will accept only portable oxygen concentrators (POC). Passenger's are required to check with the Nokscoot reservation office;
- permeation devices (2.3.5.16);
- specimens, non-infectious packed with small quantities of flammable liquids (2.3.5.14) and mercury barometer or thermometer (2.3.3.1).

Section 2

Pages 24-25, revise Table 2.3.A as shown:

TABLE 2.3.A Provisions for Dangerous Goods Carried by Passengers or Crew (Subsection 2.3)

The pilot-in-command must be informed of the location				
Permitted in or as carry-on baggage				
Permitted in or as checked baggage				
The approval of the operator is required				
...	NO*	YES	YES	NO
<p>Lithium Batteries: Portable electronic devices containing lithium metal or lithium ion cells or batteries, including medical devices such as portable oxygen concentrators (POC) and consumer electronics such as cameras, mobile phones, laptops and tablets, when carried by passengers or crew for personal use (see 2.3.5.9). For lithium metal batteries the lithium metal content must not exceed 2 g and for lithium ion batteries the Watt-hour rating must not exceed 100 Wh. Devices in checked baggage must be completely switched off and must be protected from damage. Devices in checked baggage must be completely switched off and must be protected from damage. Each person is limited to a maximum of 15 PED. <u>Baggage equipped with a lithium battery, other than lithium button cells, the battery must be removable. If offered as checked baggage the battery must be removed and carried in the cabin.</u></p> <p>*The operator may approve the carriage of more than 15 PED</p> <p>...</p>				

Page 27, revise paragraph 2.3.5.9 as shown:

2.3.5.9 Portable Electronic Devices (Including Medical Devices) Containing Batteries

2.3.5.9.1 For the purpose of these Regulations, lithium-battery-powered electronic device means the equipment or apparatus for which the lithium cells or batteries will provide electrical power for its operation. These devices

(PED), which may include medical devices such as portable oxygen concentrators (POC) and consumer electronics such as cameras, mobile phones, laptops and tablets containing batteries when carried by passengers or crew for personal use, which should be carried in carry-on baggage. Each person is limited to a maximum of 15 PED and a maximum of 20 spare batteries; however, the operator may approve the carriage of more than 15 PED and/or 20 spare batteries. Spare batteries must be individually protected to prevent short circuits by placement in the original retail packaging or by otherwise insulating terminals, e.g. by taping over exposed terminals or placing each battery in a separate plastic bag or protective pouch and carried in carry-on baggage only. If devices are carried in checked baggage:

(a) measures must be taken to protect the device from damage and to prevent unintentional activation;

(b) the device must be completely switched off (not in sleep or hibernation mode).

2.3.5.9.2 Spare batteries must be individually protected to prevent short circuits by placement in the original retail packaging or by otherwise insulating terminals, e.g. by taping over exposed terminals or placing each battery in a separate plastic bag or protective pouch and carried in carry-on baggage only. Each person is limited to a maximum of 20 spare batteries; however, the operator may approve the carriage of more than 20 spare batteries.

2.3.5.9.3 In addition, lithium batteries are subject to the following conditions:

(a) each installed or spare battery must not exceed:

1. for lithium metal or lithium alloy batteries, a lithium content of not more than 2 g; or
2. for lithium ion batteries, a watt-hour rating of not more than 100 Wh.

(b) batteries and cells must be of a type that meets the requirements of the UN Manual of Tests and Criteria, Part III, subsection 38.3;

(c) each person is limited to a maximum of 15 PED; however, the operator may approve the carriage of more than 15 PED;

(ed) articles containing lithium metal or lithium ion cells or batteries, the primary purpose of which is to provide power to another device, e.g. power banks, are permitted in carry-on baggage only. These articles must be individually protected to prevent short circuits by placement in the original retail packaging or by otherwise insulating terminals, e.g. by taping over exposed terminals or placing each battery in a separate plastic bag or protective pouch;

(de) electronic cigarettes containing lithium batteries are permitted in carry-on baggage only (see 2.3.5.17);

(e) if devices are carried in checked baggage:

1. measures must be taken to protect the device from damage and to prevent unintentional activation;
2. the device must be completely switched off (not in sleep or hibernation mode).

(f) baggage equipped with a lithium battery, other than lithium button cells:

1. if the baggage is to be checked in, the lithium battery must be removed from the baggage and the lithium battery must be carried in the cabin; or
2. the baggage must be carried in the cabin.
3. baggage where the lithium battery is designed to charge other devices and cannot be removed is forbidden for carriage.

Page 32, Amend 2.6.8.2 as shown:

2.6.8 Documentation

...

2.6.8.2 If a document (such as a bill of lading or air waybill) accompanies dangerous goods in excepted quantities, it must include the statement "Dangerous Goods in Excepted Quantities" and indicate the number of

packages unless these are the only packages within the consignment. **This information must be shown in the "Nature and Quantity of Goods" box on the air waybill.**

Section 4

4.4 Special Provisions

Page 401, revise Special Provision A212 as below:

A75 Articles such as sterilization devices, when containing less than 30 mL per inner packaging, with not more than 150 mL per outer packaging may be transported on passenger and cargo aircraft in accordance with the provisions in Subsection 2.6 irrespective of **2.6.1 2.6.2.2** and the indication of "Forbidden" in columns G to L of the List of Dangerous Goods (Section 4.2), provided such packagings were first subjected to comparative fire testing. Comparative fire testing between a package as prepared for transport (including the substance to be transported) and an identical package filled with water must show that the maximum temperature measured inside the packages during testing does not differ by more than 200°C. Packagings may include a vent to permit the slow escape of gas (i.e. not more than 0.1 mL/hour per 30 mL inner packaging at 20°C) produced from gradual decomposition.

The requirements of 5.0.2.9 and 5.0.2.13.2 do not apply.

Section 5

Page 430, amend Packing Instruction 114 as shown:

PACKING INSTRUCTION 114

This instruction applies to UN 0407, UN 0448, **UN 0501** and UN 0509 on Cargo Aircraft Only.

The General Packing Requirements of Subsection 5.0.2, 5.1.0 and 5.1.1 must be met.

...

Section 7

Page 703, amend Figure 7.3.X as shown:

FIGURE 7.3.X

Class 9—Lithium Batteries



Name: Lithium battery

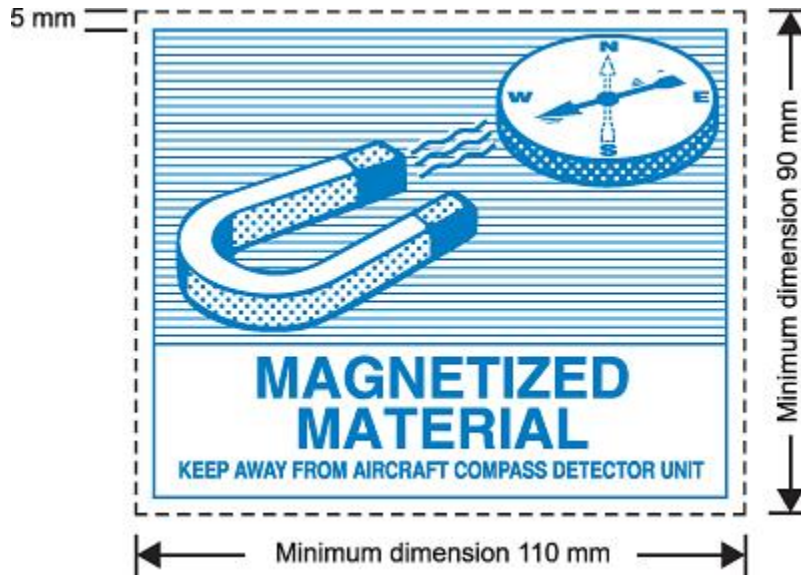
Cargo IMP Code: **RBI, RBM, RLI and RLM**

Minimum dimensions: 100 × 100 mm

Symbol (seven vertical black stripes in upper half; battery group, one broken and emitting flame in lower half): black

Background: White

Page 704, replace the magnetized label, Figure 7.4.A, with the following:



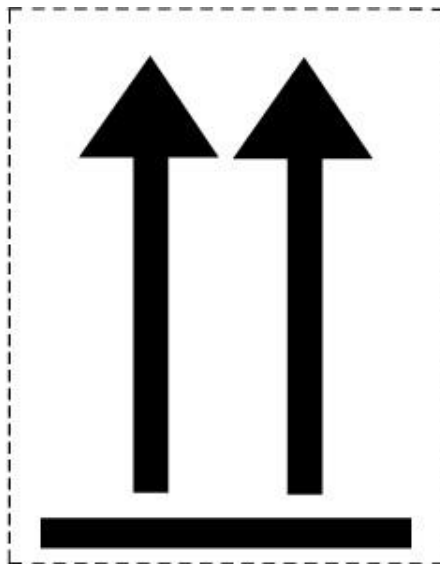
Page 704, replace the Cargo Aircraft Only label, Figure 7.4.B, with the following:



Page 705, replace the cryogenic liquids label, Figure 7.4.C, with the following:



Page 706, replace orientation alternate design, Figure 7.4.E, with the following:



Page 706, replace Keep Away From Heat label, Figure 7.4.F, with the following:



Section 9

Page 742, revise Note 2 under Table 9.3.A as shown:

Notes:

1. An “x” at the intersection of a row and a column indicates that packages containing these classes/divisions of dangerous goods must be segregated. A “—” at the intersection of a row and a column indicates that packages containing these classes/divisions of dangerous goods do not require segregation.
2. Divisions 1.4S, 4.1 and Classes 6, and 7 and 9 are not included in Table 9.3.A as they do not require segregation from other classes of dangerous goods.

Section 10

Page 816, revise paragraph as shown:

10.8.3.9.3 Third Sequence—Packing Instructions

Step 9. Category of the package(s) and overpack or freight container:

- (a) the category of the package(s), i.e. “I-White” or “II-Yellow” or “III-Yellow”. Where packages are placed in an overpack, the category of the overpack must also be provided;
- (b) for Category “II-Yellow” and “III-Yellow” only—Transport Index of the package(s). Where packages are placed in an overpack, the Transport Index of the overpack must also be provided. **The Transport Index must be rounded up to the first decimal place;**
- (c) for Category “II-Yellow” and “III-Yellow” only—dimensions including dimensional units of each package, or where placed in an overpack, the dimensions of the overpack, or dimensions of the freight container when used. The dimensions should be shown in the order length x width (or diameter for drum-shaped packages) x height, with the height as the last dimension. “L”, “W” (or “D”), “H” may be shown immediately preceding each dimension. The order if different from L x W x H must be clearly indicated what each dimension represents. **The Transport Index must be rounded up to the first decimal place;**
- (d) for Fissile Material:

1. shipped under one exception of 10.3.7.2.1 to 10.3.7.2.6, reference to that paragraph;
2. shipped under 10.3.7.2.4 to 10.3.7.2.5, the total mass of fissile nuclides;
3. contained in a package for which one of 10.6.2.8.1.3(a) to (c) or 10.6.2.8.1.4 is applied, reference to that paragraph;
4. the Criticality Safety Index, when applicable.

Appendix D.1

Page 886, amend contact details for Benin (DY) as follows:

Benin (DY)

Qualité de Responsable du Transport Aérien de Marchandises Dangereuses
L'Agence Nationale de l'Aviation Civile

ANAC Benin

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01 BP 305 Cotonou

BENIN

Tel: +229 21 30 92 17

Fax: +229 21 30 45 71

email: anacaero@anac.bj

Website: www.anac.bj

Page 893 amend contact details as follows:

Japan (J)

Special Assistant to the Director for the Safe Transport of Dangerous Goods
Flight Standards Division, Aviation Safety Dep.,

Civil Aviation Bureau

Ministry of Land, Infrastructure, Transport and Tourism

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Chiyoda Ku, Tokyo

JAPAN

Tel: +81 (3) 5253 8737, **Ext. 50123 & 50124**

Fax: +81 (3) 5253 1661

email: sugimoto-h2vt@mlit.go.jp

Page 895 amend contact details as follows:

The former Yugoslav Republic of Macedonia

Macedonia, Republic of (MKD)*

Civil Aviation Agency

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1000 Skopje

MACEDONIA (FYROM)

The former Yugoslav Republic of Macedonia

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email: info@caa.gov.mk

Website: www.caa.mk

Appendix E.2

Page 937, amend contact details as follows:

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