



IATA Dangerous Goods Regulations

58th Edition (English)
Effective 1 January 2017

ADDENDUM

Posted 20 June 2017

Users of the IATA Dangerous Goods Regulations are asked to note the following amendments and corrections to the 58th Edition, effective from 1 January 2017.

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)

Amend **AUG**

AUG-03 Infectious substances other than human blood products, human urine and human tissue, are prohibited from entry to Australia without prior approval from Australian Health Authorities.

Requests for approval should be addressed to:

Department of Agriculture
Biologicals Program
GPO Box 858
Canberra
ACT 2601
AUSTRALIA

Tel: +61 2 6272 4578

Fax: +61 (2) 6249 1798

Website: <http://www.daff.gov.au/biosecurity/import/biological> <http://www.agriculture.gov.au/import/goods/biological>

(see 1.2.8, 3.6.2, 8.1.6.9.4, 8.3 and 9.1.2).

Amend **BEG**

BEG-01 According to the Belgian regulations (the law of 28 May 1956, amended, on explosive substances and mixtures and substances and mixtures likely to deflagrate, as well as devices loaded with such substances and mixtures), any substance likely to be used for its explosive, deflagrating or pyrotechnic properties is considered as an explosive substance (see Subsection 3.1 and Appendix A).

BEG-02 Prior authorization of:

FPS Economy, S.M.E.s, Self-employed and Energy
Directorate General Quality and Safety
Safety Regulations Unit
North Gate
Boulevard du Roi Albert II, 16
1000 Brussels

Phone: +32 (0)2 277 77 12

Fax: +32 (0)2 277 54 14

E-mail: explo6@economie.fgov.be

is required for transport from, to, or in transit through Belgium of any explosive substance.

No transport by air of any explosives may take place from, to or in transit through Belgium except by authorization of the Minister responsible for the explosives service, who may grant exemptions to the methods of packaging.

Applications may be made only by persons or corporations having a residence or an office in Belgium. When this is not the case, the applicant must have a responsible representative, residing in Belgium and approved by Ministerial Decree. Information on this subject is obtainable from:

Ministère des Affaires Economiques
Service des Explosifs
Koning Albert II laan 16
1000 Brussels
BELGIUM
Tel: +32 (2) 206 4114
Fax: +32 (2) 206 5752

The authorization for transport to which reference is made above is furthermore subject to the agreement of:

Belgian Civil Aviation Administration
Ministry of Communications and Infrastructure
CNN
Rue du Progrès 80
1030 Brussels
BELGIUM
Tel: +32 (2) 206 3214
Fax: +32 (2) 206 3290

These various provisions are issued by the Belgian authority for regulation of explosives (Royal Decree of 23 September 1958, amended) authorization for transport by air being therefore also issued, in practice, only on a case-by-case basis, except with respect to products considered in Belgium as safety ammunition or fireworks for which an authorization covering several shipments over a period of time may in principle be granted.

It should be noted that in the case of importation or exportation or transit partially overland, any transport that is authorized only case-by-case is subject to prior application specifying the complete itinerary, including the land portion (see 1.2.8, 3.1, 8.1.6.9.4 and 8.3).

The Safety Regulations Unit may grant exemptions to the methods of packaging. These various provisions are defined in the Royal Decree of 23 September 1958, amended, laying down general rules on the manufacture, storage, possession, sales, transport and use of explosives.

When transport (import, export or transit) is authorized on a case-by-case basis and is done partially over land, the application must specify the complete itinerary, including the land portion.

✦ **BEG-04** Prior authorization is required from of the:

Federal Agency for Nuclear Control
Ravensteinstraat 36
1000 Brussels
BELGIUM
Tel: +32 (2) 289 2111
Fax: +32 (2) 289 2112
email: info@fanc.fgov.be transport@fanc.fgov.be

Is required For transport from, to or in transit through Belgium of radioactive substances and fissile substances of which the quantities exceed the limits of activity defined in Royal Decree of 20 July 2001, amended, laying down the General Regulations for the Protection of the Population, Workers and Environment against the Dangers of Ionizing Radiations, (Royal Decree of 20 July 2001). Authorization is furthermore subject to the agreement of the:

Belgian Civil Aviation Administration
Ministry of Communications and Infrastructure
CNN

Rue du Progrès 80
1030 Brussels
BELGIUM

The carriage by aircraft over the territory of the Kingdom of Belgium of:

1. Fissile radioactive material as defined in 10.3.7.1 in quantities exceeding the limits set out in 10.3.7.2; and
2. Radioactive material

- in a Type B(U) package containing more than 3,000 A1 or 3,000 A2 or 1,000 TBq, whichever is the lower; or
- in a Type B(M) package; or
- in a Type C package containing more than 3,000 A1 or 3,000 A2 or 1,000 TBq, whichever is the lower; or
- transported under special arrangement;

— Shall not be accepted without prior permission by the Belgian Civil Aviation Administration.

(see 10.8.3.9.4, 10.10.2.1 through 10.10.2.3).

BEG-05 ~~Not used~~ The following requirements apply to aircraft registered:

- (a) in Belgium no matter where they are operating; and
- (b) in a State other than Belgium and which are not required to operate under and in accordance with Annex III to Council Regulation (EC) NO. 3922/1991 of 16 December 1991 on the harmonization of technical requirements and administrative procedures in the field of civil aviation (“EU-OPS”), when they are operating in Belgium;

Aircraft may only carry dangerous goods with the prior approval of the Civil Aviation Authority. Carriage of such goods must be in compliance with these Regulations. Application for a general or special authorization must be submitted to:

Belgian Civil Aviation Administration
Operations Department — Dangerous Goods
CNN — 2nd Floor
Rue du Progrès 80
B-1030 Brussels
BELGIUM
Tel: +32 (2) 277 43 58
Fax: +32 (2) 277 42 57
email: koenraad.clerbout@mobilit.fgov.be

This variation does not apply to:

- (a) to aircraft registered in a State other than Belgium and which are required to operate under and in accordance with EU-OPS providing an approval granted by such a State is held and a copy of this approval is submitted to the Belgian Civil Aviation Authority;
- (b) unless otherwise specified in these Regulations, to dangerous goods in the case of overflight of the Belgian territory by foreign operators, provided the operator has a permission from its State of Registry to carry dangerous goods in accordance with the provisions of these Regulations;
- (c) to the transport of Dry Ice (carbon dioxide, solid), UN 1845, when used for cooling purposes in combination with goods not subject to these Regulations. All other requirements of these Regulations concerning the transport of Dry Ice remain applicable.

(see 1.2.8 and 8.1.6.9.4).

Amend **DEG**

DEG-04 For exemptions to the Regulations, the following authority should be contacted for all classes:

Luftfahrt-Bundesamt, **Gruppe Luftverkehrssicherheit**
Außenstelle Frankfurt
Sachgebiet Gefahrgut
Kelsterbacher Str. 23
D-65479 Raunheim
GERMANY

Tel: **+49 (6142) 94 610 +49 531 2355 3302**
Fax: **+49 (6142) 946 159 +49 531 2355 3398**

Amend **ITG**

ITG-05 ~~The transport of arms, ammunitions and explosives to/from/through Italian territory must previously be authorized by~~ **Authorizations for transport of weapons, ammunitions and explosives to/from/through Italian territory must be requested as described in the GEN Section of AIP Italia.**

When these Regulations require that a prior approval or authorization or exemption must be granted by Italy for the safe transport of dangerous goods by air, including for weapons, ammunitions and explosives, it must be requested from:

Ente Nazionale per l'Aviazione Civile (ENAC)
Direzione Sviluppo Trasporto Aereo Flight Operations & Dangerous Goods Unit
Personnel Licensing & Operations Regulation Department
Viale Castro Pretorio, 118
Via Gaeta 3
00185 Rome
ITALY

Tel: **+39 06 4459 6226 +39 (6) 4459 961**
Fax: **+39 06 4459 6594 +39 (6) 4459 6731**
email: **sviluppo.trasportoaereo@enac.gov.it merci.pericolose@enac.gov.it**

(see 1.2.5, 5.1, 8.1.6.9.4 and 8.3).

Amend **SAG**

SAG-04 Prior permission is required from the concerned government departments for the importation of the following:

(a) explosives and munitions of war, which require further approval from:

Presidency of Civil Aviation
Air Transport Department
PO Box 887
Jeddah 21165
SAUDI ARABIA
General Authority Of Civil Aviation (GACA)
Riyadh - King Abdulaziz Center For National Dialogue
Safety, Security & Air Transport
Address : Riyadh - King Abdulaziz Center For National Dialogue
P.O.Box 47360
Riyadh Area Code 11552.

Tel.: **(966) 8001168888, Fax: +966 (11) 5253303,**
E-mail: **Safety-ecoreg@gaca.gov.sa**

(b) chemical products except for perfumery products, cosmetics and dry ice.

- (c) radioactive material. The final destination of radioactive material must be Jeddah, Riyadh or Dammam only, except those for medical purposes, which may be imported to any point in Saudi Arabia.

Amend **USG**

USG-13 Operators must comply with all requirements of 49 CFR, Part 175 (see USG-01). These requirements include, but are not limited to, the following:

- (a) A package prepared in accordance with these Regulations for transport to, from or within the United States must not be accepted unless the operator also ensures that the shipper has complied with all applicable United States variations indicated in these Regulations (see 9.1.2).
- (b) A copy of the transport document or an electronic image thereof, must be retained by the initial operator for not less than one year after the dangerous goods are accepted by the initial operator. Each shipping paper copy must include the date of acceptance by the initial operator. The date on the shipping paper may be the date a shipper notifies the air carrier that a shipment is ready for transportation, as indicated on the air waybill or bill of lading, as an alternative to the date the shipment is picked up or accepted by the carrier. For a hazardous waste, the transport document must be retained for three years after the waste material is accepted by the initial operator (see 9.8).
- (c) The notification to pilot-in-command must list and provide the required information for, those additional materials considered to be dangerous goods under United States' regulations as indicated through United States variations (see 9.5.1.1).
- (d) Except for dangerous goods in Class 9, UN 0012, UN 0014 and/or UN 0055 also meeting the requirements of 173.63(b), articles of UN 3528 or UN 3529, dangerous goods in limited or excepted quantities, aircraft batteries transported as items of replacement (49 CFR 175.8) and those articles and substances considered to be dangerous goods under these Regulations but which are not subject to 49 CFR Parts 171–180, the following limitations apply:
1. No more than 25 kg net weight of dangerous goods and in addition thereto, 75 kg net weight of non-flammable gas, that are permitted to be carried aboard a passenger aircraft may be loaded aboard an aircraft in an inaccessible manner;
 2. For transport by cargo aircraft the following additional substances are also excepted from the above requirement:
 - (i) Class 3 (flammable liquid), Packing Group III (unless the substance is also labelled Corrosive);
 - (ii) Division 6.1 (toxic) materials (unless the substance is also labelled for any hazard class or division except FLAMMABLE LIQUID);
 - (iii) Division 6.2 (infectious substances);
 - (iv) Class 7 (radioactive) material that does not meet the definition of another hazard class.
 - (v) Articles of UN 3528 or UN 3529.

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New or Amended Operator Variations (Section 2.8.4)

In 2.8.3.4 List add:

After Air Europa	Add Air Europa Express	X5
After flydubai	Add Frenchblue	BF
After Middle East Airlines	Add Niki	HG

Amend 3K (Jetstar Asia)

3K-05 ~~Dangerous goods consigned as cargo are not accepted for carriage on any Jetstar Asia aircraft. Dangerous goods in consolidations will not be accepted for carriage except for UN 1845 Carbon dioxide solid (dry ice) up to maximum of 145 kg per flight when used as refrigerant for a non-dangerous goods consignment.~~

~~The only exceptions are:~~

- ~~• aircraft stores and equipment when prepared for transport in accordance with the current IATA Dangerous Goods Regulations; and~~
- ~~• UN 1845 Carbon dioxide solid/dry ice maximum of 145 kg per flight when used as refrigerant for non-dangerous goods.~~

Amend 5X (United Parcel Service)

Note: *The most current information about UPS services and restrictions may be found at the following web site:* <http://ups.com/hazmat> <https://www.ups.com/us/en/help-center/packaging-and-supplies/special-care-shipments/hazardous-materials.page>

5X-01 Small Package Service – U.S. Domestic: Shipments of Dangerous Goods in the UPS Small Package service with an origin and destination within the USA will be accepted by contract only, in accordance with the current UPS “Hazardous Materials Guide.” This information is posted under the SUPPORT topic on the UPS Home Page (www.ups.com). See also the SITE GUIDE on UPS Home Page www.ups.com, at the link for “Hazardous Materials.” Users may also locate the UPS Guide for Shipping Hazardous Materials by using the SEARCH function on the website. 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.

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: www.ups.com/content/us/en/resources/ship/idg/information/acl.html <https://www.ups.com/us/en/help-center/packaging-and-supplies/special-care-shipments/international-dangerous-goods/approved-countries.page>

When shipping packages requiring an IATA Shipper's Declaration for Dangerous Goods, combination packagings must be used and packages 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 5.1 (Oxidizer)
- 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.
- 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: <http://www.ups.com/content/us/en/resources/ship/idg/information/acl.html> <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).

5X-03 UPS Air Cargo Service: Dangerous goods shipments will be accepted in Air Cargo Service by contract only. All contract applications must be reviewed and approved by the UPS Air Dangerous Goods Department (SDF) and Air Cargo Service (UPS Air Group-SDF). Hazard Classes accepted in Air Cargo Service are subject to approval and shipments are subject to advance arrangement.

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. Approval to ship UN 3090 lithium metal batteries is required. Refer to 5X-08 and the Air Cargo shipper contract for details.

5X-04 UPS Global Freight Forwarding: Dangerous Goods shipments in UPS Air **Freight** Services are accepted by arrangements between UPS Airlines and UPS Supply Chain Solutions. Prohibited hazard classes include:

- Divisions 1.1, 1.2, 1.3, 1.4F, 1.5 and 1.6 (Explosives)
- Division 2.3 Toxic Gases
- Substances that require the Keep Away From Heat label, or are subject to Special Provision A136
- Substances having either a primary or subsidiary hazard of Division 6.1—with a Packing Group I inhalation toxicity
- Division 6.2—(Infectious Substances, Category A)
- Class 7 (outside of the U.S., Canada and Mexico)—substances requiring a “Radioactive” White-I, Yellow-II or Yellow-III label.
 - Materials requiring a Fissile label are not accepted in any UPS service.
 - Radioactive Material, Excepted Package shipments are also prohibited outside the U.S. and Canada.

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.

5X-05 General: When an IATA Shipper's Declaration for Dangerous Goods is required, the shipper must present three original copies.

5X-06 General: To maintain compliance with USG-18, for the following listed materials, UPS requires all packages to comply with U.S. DOT packaging requirements contained in 49 CFR 173.302(f) and 173.304(f). Such packagings must be marked with the text "DOT31FP" on the outer package. Affected entries are:

UN 1070 — Nitrous oxide—see 49 CFR 173.340(f)

UN 1072 — Oxygen, compressed—see 49 CFR 173.302(f)

UN 2451 — Nitrogen trifluoride—see 49 CFR 173.302(f)

UN 3156 — Compressed gas, oxidizing, n.o.s.—see 49 CFR 173.302(f)

UN 3157 — Liquefied gas, oxidizing, n.o.s.—see 49 CFR 173.304(f)

UN 3356 — Oxygen generator, chemical—see 49 CFR 173.168

Carbon dioxide and oxygen mixture, compressed—see 49 CFR 173.304(f)

5X-07 General: The following limitations apply to the commodities identified here:

- Shipments of UN 3480, Lithium ion batteries and UN 3090, Lithium metal batteries are accepted only when prepared under Section I.A or I.B 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. Depending on required routing, shipments of UN 3480, Lithium ion batteries prepared in accordance with Section II of PI 965 may need to be returned to shippers due to prohibitions on carrying such shipments aboard passenger aircraft. Please refer to UPS.com for details.

- For shipments tendered without an IATA Air Waybill, lithium battery packages of UN 3480, UN 3481, UN 3090 or UN 3091 prepared and marked/labelled in accordance with Section II of the relevant Packing Instruction should also be marked with appropriate information on the address label or adjacent to the mark required by 7.1.5.5 or the label shown at 7.4.8, to enable UPS to identify the shipment type when transferring to partner air carriers. For example:

— P.I. 965-II

— P.I. 966-II

— P.I. 967-II

— P.I. 968-II

— P.I. 969-II

— P.I. 970-II

Alternatively, such information may be included on a document accessible from the outside of the package.

- Shipments of refurbished lithium batteries, or refurbished lithium batteries packed with or contained in equipment are not accepted unless specifically approved by the UPS Air Dangerous Goods Department (SDF);
- Shipments of lithium batteries in any UPS air services (including UPS Small Package, UPS Air Freight services or UPS Air Cargo services) which require the use of Special Provisions A88, A99 or A183 are subject to and must receive prior approval from the UPS Air Dangerous Goods Department (SDF);
- For UPS Small Package service, shipments of UN 3171, **Battery-powered vehicle**, will only be accepted under the following conditions:
 - Passenger aircraft quantities only; not accepted as CAO;
 - Shipment is limited to a maximum gross weight of 30 kg;

- Vehicle containing lithium battery or batteries therein that would separately be classified as UN 3480 or UN 3090. The battery contained in the vehicle is limited to 5 kg maximum net weight;
 - For shipments of UN 3171 powered by lithium batteries, UPS requires the additional marking, “Contains Lithium Batteries.” The marking must meet the requirements as stated in 7.1.4.4.1 and be near the proper shipping name mark;
 - Vehicle containing a wet, non-spillable battery or batteries therein that would separately be classified as UN 2800. The battery contained in the vehicle is limited to 25 kg maximum net weight.
- Shipments of UN 3171, **Battery-powered vehicle**, containing defective or damaged batteries are not accepted by UPS.
 - Shipments of UN 3077, **Environmentally hazardous substance, solid, n.o.s.** will not be accepted when contained in Intermediate Bulk Containers (IBCs) in any UPS air services (including UPS Small Package, UPS Air Freight services or UPS Air Cargo services);
 - Shipments of UN 2807, **Magnetized materials**, for which the magnetic field strength exceeds 0.00525 gauss when measured at 4.6 m from any surface of the package are not accepted in UPS services (including UPS Small Package; UPS Air Freight services or UPS Air Cargo services);
 - Shipments of UN 3245, **Genetically modified organisms** or **Genetically modified micro-organisms** with an origin and/or destination outside the U.S. are not accepted in UPS small package services. For UPS Air Freight shipments, case-by-case approval is required to assure the ability to import or transit the shipments within countries involved.

5X-08 General: UPS limits transport of UN 3090 Lithium Metal Batteries to ~~origins and destinations within its International Dangerous Goods (IDG) network shipments prepared under Section IA or IB of Packing Instruction 968.~~ A listing of origins and destinations authorized for IDG may be found at the following link: <http://www.ups.com/content/us/en/resources/ship/idg/information/acl.html> <https://www.ups.com/us/en/help-center/packaging-and-supplies/special-care-shipments/international-dangerous-goods/approved-countries.page>

All customers who wish to ship UN 3090 Lithium Metal Batteries without equipment via UPS Air services must obtain pre-approval from UPS Airlines. The pre-approval requirement applies to ~~lithium metal battery shipments that are considered lightly regulated (such as small cells or batteries), as well as to~~ lithium metal battery shipments that are fully regulated and require dangerous goods shipping papers (Shipper's Declaration). This approval is separate and in addition to any other required UPS agreement.

More information regarding the approval program may be found at the following link: <http://www.ups.com/content/us/en/resources/ship/hazardous/responsible/lithium-battery-preapproval.html> <https://www.ups.com/us/en/help-center/packaging-and-supplies/special-care-shipments/international-dangerous-goods/approved-countries.page>

Amend **AI (Air India)**

~~**AI-08** Only UN 3481, lithium ion batteries packed with equipment and lithium ion batteries contained in equipment prepared in accordance with PI 966 and PI 967, respectively will be accepted for transport. UN 3091, lithium metal batteries packed with equipment and lithium metal batteries contained in equipment prepared in accordance with PI 969 and PI 970 respectively, are forbidden. Not used.~~

Amend **AZ (Alitalia Airlines)**

- ✦ **AZ-02** Fissile radioactive material will only be accepted for carriage with the prior approval of the Alitalia Qualified Expert,

email: carboni.caterina@alitalia.it caterina.carboni@alitalia.com

Add new **BF (Frenchblue)**

- ✦ **BF-01** Only radioactive material Category I-White (IMP code RRW, see B.2.2.4) where the maximum radiation level at any point on any external surface of a package or overpack does not exceed 0.005 mSv/h is accepted for transport.

Amend **BR (EVA Airways)**

BR-19 Lithium metal batteries shipped under the provisions of Section II (PI 969—970) will not be accepted for transportation aboard passenger aircraft.

Amend **CA (Air China)**

CA-14 Each passenger and crew member is not permitted to carry more than 8 spare batteries in total. Included in the total of eight spare batteries are:

- not more than 2 lithium ion batteries with a watt-hour rating exceeding 50 Wh but not exceeding 100 Wh or 2 lithium metal batteries, with a lithium metal content exceeding 1 g but not exceeding 2 g;

Notes:

1. *No more than two power banks are permitted.*
2. *Lithium ion batteries, lithium metal batteries or power banks without any clear marks of the Watt-hour or lithium metal content or where the Watt-hour rating can't be calculated are forbidden.*

3: Medical devices such as Portable Oxygen Concentrators (POC), which are permitted to be used on board, are specified in the relevant manuals or documents of Air China. The number of spare batteries for the devices mentioned above shall also be complied with the regulations in the relevant manuals or documents of Air China.

- the permitted number of spare lithium batteries for wheelchairs or other mobility aids is included in the total of 8 spare batteries, and must comply with the relevant requirements for wheelchairs and other mobility aids.

Add new

CA-15 Small vehicles powered by lithium batteries such as balance wheel, air wheel, solo wheel, hoverboard, bike etc. are forbidden to be transported in the passengers luggage either as checked or carry-on baggage.

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 UN 1072 (in compliance with SP A302), UN 2908, UN 2909, UN 2910, UN 2911, UN 3164 meeting requirement of PI208(a) and UN 3373;
2. fully regulated lithium ion batteries (Class 9) as per Section IA and IB of PI 965 and Section I of PI 966–PI 967 (RLI);
3. fully regulated lithium metal batteries as per Section I of PI 969–PI 970 (RLM).

Note:

The above prohibitions do not apply to CI company material.

Amend **CX (Cathay Pacific Airways)**

CX-08 All packages prepared in accordance with Section II of PI 967 or Section II of PI 970 must bear the lithium battery mark or lithium battery handling label as required by 7.1.5.5 or 7.2.4.7 respectively. This requirement applies to all packages of lithium batteries contained in equipment, even where the package contains no more than four cells or two batteries installed in equipment. The requirement for the lithium battery mark or lithium battery handling label does not apply to packages containing only button cells installed in equipment (including circuit boards). Not used.

Amend **FX (Federal Express)**

FX-04

- (a) The following Class 8 substances will not be accepted for carriage (**see Packing Instructions [–] listed after each substance**):

UN Number — Description

UN 1796 — **Nitrating acid mixture**, over 40% concentration [854, 855]

UN 1826 — **Nitrating acid mixtures, spent**, over 40% concentration [854, 855]

UN 2031 — **Nitric acid**, over 40% concentration [854, 855]

When shipping the above substances in acceptable concentrations, the concentration **MUST** be indicated on the Shipper's Declaration in association with the proper shipping name.

- (b) Hazardous waste as defined in USG-04, will not be accepted for carriage.
- (c) Division 6.2, items classed as Risk Group 4 by the World Health Organization (WHO) will not be accepted for carriage.
- (d) The following substances will not be accepted for carriage (**see Packing Instructions [–] listed after each substance**):

UN Number — Description

UN 1001 — **Acetylene, dissolved** [200]

UN 1162 — **Dimethyldichlorosilane** [377]

UN 1308 — **Zirconium suspended in a flammable liquid**, Packing Group I, [361]

UN 1873 — **Perchloric acid**, over 50% concentration [553]

- (e) FedEx Express will not accept for transport any item with an A2 or that meets the definition of A183 **or A209** Special Provision even with a Competent Authority approval.

FX-05

- (a) FedEx Express will not accept UN 3090 or UN 3480 offered as Section II.
- (b) All UN 3090 lithium metal batteries under Packing Instruction 968 (Section IA, IB) require pre-approval. **See www.fedex.com/us**; keyword lithium batteries (search field).
- (c) All lithium batteries (Section I, IA, IB and II) in all packing instructions must not be shipped in the same package as the following dangerous goods classes/divisions: 1.4, 2.1, 3, 4.1, 4.2, 4.3, 5.1, 5.2 and 8 and 2.2 with a Cargo Aircraft Only label. This includes All Packed in One, Overpacks and combination All Packed in One/Overpacks.
- (d) **All Section II lithium batteries must have the UN number(s) added to the IATA lithium battery handling label (Caution) effective 1/1/17. Effective 1 July 2017. When the lithium battery handling label (IATA Figure 7.4.H) is applied to packages / overpacks for Section IB and II lithium battery shipments, the applicable UN number(s) must be marked on the package adjacent to the lithium battery handling label.**

Amend **GF (Gulf Air)**

GF-14 **Lithium metal or lithium alloy cells and batteries (UN 3090) and II lithium metal or lithium alloy cells and batteries packed with or contained in equipment (UN 3091) are prohibited from carriage as cargo on GF aircraft. This prohibition does not apply to GF company materials (see Packing Instructions 968, 969 and 970).**

Amend **GH (Llc GloBus)**

GH-02 Patient specimens will only be accepted if assigned to UN 2814 or UN 2900 or UN 3373 as appropriate. Biological substance, Category B – UN 3373 may only be accepted for carriage under necessary requirements and after a prior Llc GloBus written approval has been granted. **Not used.**

Add new

HG (Niki)

✦ **HG-01** Class 7, radioactive material, fissile material and excepted packages are not permitted on HG flights (see 10.5.8, 10.5.13).

HG-02 Dangerous goods in limited quantities (“Y” packing instructions) will not be accepted for carriage. **Exception:** Consumer commodity (ID 8000) will be accepted (see Subsection 2.7 and all “Y” Packing Instructions).

HG-03 Class 3 Flammable Liquid – not permitted.

HG-04 Division 4.2 - substances liable to spontaneous combustion not permitted.

HG-05 Division 6.2 infectious substances, including UN3373, not permitted.

HG-06 The shipper must provide a 24-hour emergency telephone number of a person/agency who is knowledgeable of hazards, characteristics and actions to be taken in case of an accident or incident concerning (each of) the dangerous goods being transported. This telephone number, including country and area code, preceded by the words “Emergency Contact” or “24-hour number” must be inserted on the DGD preferably in the “Additional Handling Information” box, e.g. “Emergency Contact +47 6750 00 00” (see 8.1.6.11)

A 24-hour emergency telephone number is not required for shipment that does not require a Shipper’s Declaration for Dangerous Goods.

Amend **JL (Japan Airlines)**

JL-08 Division 6.1, Toxic substances in Packing Group I will not be accepted for carriage. Substances assigned to Packing Group I with a toxic primary or subsidiary hazard or substances with a toxic primary or subsidiary hazard that are required to be in Packing Group I performance standard packagings are forbidden for carriage.

Amend **JU (Air Serbia)**

JU-06 Dangerous Goods in Limited Quantities (“Y” Packing Instructions) will not be accepted for carriage. **Exception:** Consumer commodity (ID 8000) will be accepted.

JU-07 Dangerous Goods in consolidations will not be accepted for carriage. **Exception:**

- Consolidation with only one house air waybill;
- Consolidations having multihouse air waybill containing ID8000 (consumer commodities);
- Consolidations with multihouse air waybill containing UN1845 (dry ice) when used as refrigerant for non-dangerous goods.

JU-13 Lithium metal batteries UN 3091 packed with or contained in equipment are forbidden as cargo on JU (Air SERBIA) aircrafts. This includes Section I/IA, IB and II of Packing Instruction 969 and 970. **Exception:** UN 3091 shipments of JU aircraft spare parts/AOG

Amend **KA (Hong Kong Dragon Airlines (Cathay Dragon))**

KA-08 All packages prepared in accordance with Section II of PI 967 or Section II of PI 970 must bear the lithium battery mark or lithium battery handling label as required by 7.1.5.5 or 7.2.4.7 respectively. This requirement applies to all packages of lithium batteries contained in equipment, even where the package contains no more than four cells or two batteries installed in equipment. The requirement for the lithium battery mark or lithium battery handling label does not apply to packages containing only button cells installed in equipment (including circuit boards). **Not used.**

Amend **LD (Air Hong Kong)**

LD-08 All packages prepared in accordance with Section II of PI 967 or Section II of PI 970 must bear the lithium battery mark or lithium battery handling label as required by 7.1.5.5 or 7.2.4.7 respectively. This requirement applies to all packages of lithium batteries contained in equipment, even where the package contains no more than four cells or two batteries installed in equipment. The requirement for the lithium battery mark or lithium battery handling label does not apply to packages containing only button cells installed in equipment (including circuit boards). Not used.

Add new **LX (Swiss International)**

LX-07 UN 3171, **Battery-Powered Vehicles** are not accepted as cargo. This prohibition does not apply to UN 3171, **Battery-Powered Equipment.**

Amend **ME (Middle East Airlines)**

ME-02 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), except for the following shipments:

- consolidations containing UN1845, Carbon dioxide, solid (Dry ice) when used as a refrigerant;
- consolidations with only one house air waybill;
- consolidations with more than one house air waybill in case of identical shipper.

Amend **MN (Comair Pty Ltd)**

MN-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). The following dangerous goods are prohibited for carriage on all Comair aircraft:

- a. Class 1 to Class 8; with the exception of UN 1863 and UN 3373;
- b. Class 9; with the exception of UN 1845, UN 3082, UN 3363 and UN 3481.

MN-02 Oxygen or air. Small cylinders containing gaseous oxygen or air required for medical use are not permitted in passenger checked or carry-on baggage. Should a passenger require supplementary oxygen, this will be provided by the operator at a cost (see 2.3.4.1). Additional restrictions apply to passengers travelling on Comair aircraft:

- a. passengers are prohibited from carrying thermometers, medical or clinical containing mercury;
- b. portable electronic devices containing lithium metal or lithium ion cells or batteries are permitted in carry-on baggage only. These are not permitted in checked baggage.

Amend **MP (Martinair Holland)**

Add new

MP 07 Lithium batteries, UN 3480 and/or UN 3090, section IA, IB and/or section II, in combination packages, all packed in one and/or overpacks combined with other dangerous goods will not be accepted.

Amend **OK (Czech Airlines)**

OK-01 Dangerous goods Radioactive material as defined in these Regulations will not be accepted in air mail (see 2.4 and 10.2.2).

Amend **OS (Austrian Airlines)**

OS-01 UN 3481 Lithium ion batteries contained in equipment, PI 967, Section I (battery/pack more than 100 Wh) will not be accepted for carriage as cargo. Dangerous goods in "Limited Quantities" ("Y" Packing Instructions) will not be accepted for carriage. Exception: **Consumer commodity** (ID 8000) will be accepted (see **Subsection 2.7 and all "Y" Packing Instructions**).

OS-02 ~~Not used~~ Dangerous goods in consolidations will not be accepted for carriage, except for the following shipments:

- consolidations containing UN 1845, Carbon dioxide, solid (Dry ice) when used as a refrigerant;
- consolidations with only one house air waybill;
- consolidations with more than one house air waybill, in case of identical shipper.

OS-03 Dangerous goods in “Limited Quantities” (“Y” Packing Instructions) will not be accepted for carriage. Exception: **Consumer commodity** (ID 8000) will be accepted (**see Subsection 2.7 and all “Y” Packing Instructions**). Biological substance, Category B (UN 3373) will not be accepted in air mail (**see 2.4**).

OS-04 Biological substance, Category B (UN 3373) will not be accepted in air mail (**see 2.4**). UN 3356 Oxygen generator, chemical will not be accepted.

Add new

✧ **OS-06** Fissile Material will not be accepted.

OS-07 Intermediate bulk containers (IBC) will not be accepted. Exception: The IBC packagings 11A, 21A, 11B, 21B, 11N, 21N and 11C will be accepted under the condition that they are stackable with a minimum toplod of 2,000 kg (stacking test load at least 3,600 kg). Advance arrangements with Lufthansa Cargo AG are required.

OS-08 The following restrictions apply to lithium ion and lithium metal batteries as follows:

1. UN 3480 Lithium ion batteries prepared in accordance with Section IA, IB and II PI 965 and UN 3090 Lithium metal batteries prepared in accordance with Section IA, IB and II PI 968 will not be accepted for carriage as cargo;
2. All consignments containing the following lithium batteries are prohibited as cargo on passenger aircraft and must be shown on the DGD as Cargo Aircraft Only with packages bearing the Cargo Aircraft Only label:
 - UN 3091 Lithium metal batteries packed with equipment prepared in accordance with Section I of PI 969;
 - UN 3091 Lithium metal batteries contained in equipment prepared in accordance with Section I of PI 970;
 - UN 3481 Lithium ion batteries packed with equipment prepared in accordance with Section I of PI 966;
 - UN 3481 Lithium ion batteries contained in equipment prepared in accordance with Section I of PI 967.
3. All consignments containing the following lithium batteries are permitted as cargo on passenger and cargo aircraft:
 - UN 3481 Lithium ion batteries packed with equipment in accordance with Section II of PI 966;
 - UN 3481 Lithium ion batteries contained in equipment in accordance with Section II of PI 967;
 - UN 3091 Lithium metal batteries packed with equipment in accordance with Section II of PI 969;
 - UN 3091 Lithium metal batteries contained in equipment in accordance with Section II of PI 970.

OS-09 All consignments containing UN 3171 Battery-powered vehicle and Battery-powered equipment are prohibited on passenger aircraft.

Add new **P3 (Cargologicair)**

P3-03 UN 3480, Section IA of PI 965 and UN 3481, Section I of PI 966 and PI 967 are accepted for carriage upon prior approval of the airline. Request for approval must be via email: dg@cargologicair.com

P3-04 UN 3480 Section IB, II of PI 965, UN 3481 Section II of PI 966 and PI 967, UN 3090 Section IB,II of PI 968 and UN 3091, Section II of PI 969 and PI 970 are accepted for carriage only with a completed and signed

“Shipper’s Declaration for Lithium Battery” form. This form can be obtained from local airline offices or via email: dg@cargologicair.com

Amend PG (Bangkok Airways)

PG-02 Commercial shipments of dangerous goods will not be accepted. Properly prepared company material (COMAT), aircraft spares shipments will be accepted (see 2.5.2). 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.

Note:

Contact for additional information, evaluation or operator approval is:

Jirapon Hirunrat (Mr.)
Senior Flight Operations Control Manager
BANGKOK AIRWAYS CO., LTD.
2FL, Bangkok Air Operations Complex
999 Mu. 4 Bangna-Tart Road, Bangchalong
Bangplee, Samutprakarn
10540 THAILAND
Tel: +662 328 3309
Tel: +662 328 3306
Fax: +662 325 0647
email: jirapon@bangkokair.com
email: bkkoc@bangkokair.com
AFTN: VTBSBKPX
SITA: BKKOCPG

Add new

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)

Note:

Contact for additional information, evaluation or operator approval is:

Email: dgacceptance@bangkokairways.com

Amend RU (Air Bridge Cargo)

Add new

RU-03 UN 3480, section IA of PI965 and UN 3481, section I of PI966 and PI967 are accepted for carriage upon prior approval of the airline. Request for approval must be via email: dg@airbridgecargo.com

RU-04 UN 3480 Section IB, II or PI965, UN 3481 Section II of PI966 and PI967, UN 3090 Section IB, II of PI968 and UN 3091, Section II of PI969 and PI970 are accepted for carriage only with filled and signed “shipper’s declaration of lithium battery” form. This form can be obtained via local offices of the airline or via email: dg@airbridgecargo.com

Amend S7 (PJSC Siberia Airlines)

S7-02 Patient specimens will only be accepted if assigned to UN 2814 or UN 2900 or UN 3373 as appropriate. Biological substance, Category B–UN 3373 may only be accepted for carriage under necessary requirements and after a prior Siberia Airlines written approval has been granted. Not used.

Amend SQ (Singapore Airlines/Singapore Airlines Cargo)

SQ-02 Items with a primary or subsidiary risk of Division 2.1 and Class 4, when packed for “Passenger and Cargo Aircraft”, must be loaded in the lower deck of all aircraft. Not used.

SQ-03 ~~Items with a primary or subsidiary risk of Division 2.1 and Class 4, when packed for “Cargo Aircraft Only”, will not be accepted. Not used.~~

Amend **SS (Corsair)**

Add new

SS-02 Diving lamps are accepted by Corsair International only in carry-on baggage (see 2.3.4.6).

SS-03 The number of packages marked with the lithium battery handling label in compliance with the Section II of the packing instructions 966-967,969-970, must be added in the “Nature and Quantity of Goods” box of the air waybill.

SS-04 For shipments of UN 3171 powered by lithium batteries, Corsair International requires the additional marking, “Contains Lithium Batteries.” The marking must meet the requirements as stated in 7.1.4.4.1 and be near the proper shipping name mark.

SS-05 Where any doubt arises regarding the classification or identification of a substance, the shipper must provide, upon request by Corsair Int or its representative, the **Safety Data Sheet (SDS)** for the substance. The SDS must include the UN number, packing group if necessary, proper shipping name, and all other relevant transport information.

Amend **TS (Air Transat)**

Add new

TS-05 Lithium Ion battery UN 3481 when shipped as cargo prepared in accordance with Section II of Packing Instruction 966 or with Section II of Packing Instruction 967 must be identified on the NOTOC.

Amend **UU (Air Austral)**

UU-07 Chemical agent monitoring equipment containing radioactive materials carried by staff members of the Organization for the Prohibition of Chemical Weapons (OPCW) are forbidden on the Air Austral network.

Amend **UX (Air Europa)**

~~**UX-11** UN 3480 –Lithium ion cells and batteries, including lithium polymer cells and batteries are prohibited from carriage as cargo. This applies to Section IA, IB and II of Packing instruction 965.~~

~~Shipments exempt from this prohibition are:~~

~~–Company Aircraft Spare parts and supplies, COMAT, AOG.~~

~~–Lithium batteries covered by the Provisions of Dangerous Goods Carried by Passengers & Crew (Table 2.3.A).~~

~~UN 3091 - Lithium metal batteries and cells contained in equipment or packed with equipment are prohibited from carriage as cargo. This prohibition does not apply to lithium batteries covered by the Provisions for Dangerous Goods carried by passengers or crew (see Table 2.3.A);~~

~~UN 3481 - Lithium ion batteries and cells contained in equipment or packed with equipment, the number of packages marked with the lithium battery handling label in compliance with the section II of the packing instructions 966 and 967 must be added, for each Packing Instruction concerned, in the “Nature and Quantity of goods” box of the air waybill.~~

Amend **VN (Vietnam Airlines)**

VN-05 Class 1—All kinds of explosives will not be accepted for carriage, except the substances and articles of Division 1.4S. Total net weight of explosives shall not be over 250 kg each hold (FWD/AFT cargo compartment).

~~**VN-09** Class 7 – Only Radioactive material, excepted package – empty packaging (UN 2908); Radioactive materials excepted package – instruments (UN 2911) and Radioactive materials in Type A package with Transport Index not exceeding 3.0 each package are accepted for carriage.~~

~~Radioactive Materials will not be accepted for carriage, except Radioactive Materials intended for use in medical research or medical diagnosis and treatment as following:~~

- 1) UN 2908 Radioactive Material, excepted package - empty packaging;
- 2) UN 2911 Radioactive Materials excepted package - instruments; and
- 3) Radioactive Materials in Type A package with Transport Index not exceeding 3.0 each package

VN-11 Class 9— The following restrictions apply: -Yeast active; polymeric beads or granules; and Magnetized materials exceeding 2,000 kg will not be accepted for carriage.

- Yeast active and polymeric beads, expandable are not accepted for carriage.
- Only accept for carriage magnetized materials with field strengths causing a compass deflection of more than 2 degrees at a distance of 2.1 m but not more than 2 degrees at a distance of 4.6 m (equivalent to 0.418 A/m or 0.00525 Gauss measured at a distance of 4.6 m) and the total net weight of above magnetized materials is not over 2,000 kg each flight.
- Maximum ~~limitation for total net weight of~~ dry ice per ~~cargo compartment hold of aircraft~~ (FWD/AFT cargo compartment) is as follows:

Type of aircraft	With live animals	Without live animals
A321	100 kg	180 kg
B787/B777/A350/A330	150 kg	250 kg

- 1) Total weight of Dry Ice each flight is not over maximum weight for 2 holds.
- 2) Total weight of Dry Ice stowed in Bulk is not over 100 kg for all above types of aircraft.

Add new **X5 (Air Europa Express)**

X5-01 Dangerous goods in excepted quantities will not be accepted for carriage.

X5-02 Dangerous goods in limited quantities ("Y" packing Instructions) will not be accepted for carriage, except for: "ID 8000 – Consumer commodity", aircraft parts and supplies COMAT, AOG).

X5-03 Dangerous goods in consolidations will not be accepted for carriage except for consolidations containing UN 1845, Carbon dioxide, solid (dry ice) when used as a refrigerant for non-dangerous goods.

X5-04 Division 6.1 – Toxic substances – Dangerous goods in which the primary or secondary hazard belongs to Division 6.1 (except for COMAT, AOG, aircraft parts and supplies), will not be accepted for carriage.

X5-05 Dangerous goods of which the primary hazard is class 4 (4.1, 4.2, 4.3), except for COMAT, AOG, aircraft parts and supplies) will not be accepted for carriage.

X5-06 Dangerous goods of which the primary hazard belongs to division 5.2 will not be accepted for carriage.

X5-07 The following dangerous goods will not be accepted for carriage:

- UN 1787 - Hydriodic acid.
- UN 2803 - Gallium

X5-08 Hazardous waste in any form, as defined by any regulation, will not be accepted for carriage.

X5-09 Salvage packagings will not be accepted for carriage.

✦ **X5-10** Class 7 - Radioactive materials will not be accepted for carriage.

X5-11 UN 3091 - Lithium metal batteries and cells contained in equipment or packed with equipment are prohibited from carriage as cargo. This prohibition does not apply to lithium batteries covered by the Provisions for Dangerous Goods carried by passengers or crew (see Table 2.3.A):

UN 3481 - Lithium ion batteries and cells contained in equipment or packed with equipment, the number of packages marked with the lithium battery handling label in compliance with the section II of the packing

instructions 966 and 967 must be added, for each Packing Instruction concerned, in the “Nature and Quantity of goods” box of the air waybill.

Add new **XG (SunExpress Deutschland GmbH)**

XG-09 UN 3171 Battery-powered vehicle powered by lithium batteries will not be accepted for carriage as cargo.

Add new **XQ (SunExpress)**

XQ-09 UN3171 Battery-powered vehicle powered by lithium batteries will not be accepted for carriage as cargo.

Section 1

Page 10, revise Table 1.5.B as follows:

...

Notes:

1. Depending on the responsibilities of the person, the aspects of training to be covered may vary from those shown in Table 1.5.A and Table 1.5.B. For example, in respect of classification, staff involved in implementing security procedures (e.g. screeners and their supervisors) need only be trained in the general properties of dangerous goods.

2. A set of detailed dangerous goods training programmes for the various categories of personnel, prepared jointly with ICAO, is available from IATA. These training programmes correspond to the categories of the personnel shown in Table 1.5.A. Also available is a set of guidelines for instructors of dangerous goods courses.

3. The categories of personnel identified in Table 1.5.A and Table 1.5.B are not all encompassing. Personnel employed by or interacting with the aviation industry in areas such as passenger **and cargo** reservation centres and engineering and maintenance, except when acting in a capacity identified in Table 1.5.A or Table 1.5.B, should be provided with dangerous goods training in accordance with 1.5.2.

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				
...				
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.	NO	YES	YES	NO
...				
Lithium battery-powered electronic devices. Lithium ion batteries for portable (including medical) electronic devices, a Wh rating exceeding 100 Wh but not exceeding 160 Wh. For portable medical electronic devices only, lithium metal batteries with a lithium metal content exceeding 2 g but not exceeding 8 g. Devices in checked baggage must be completely switched off and must be protected from damage.	YES	YES	YES	NO
...				

Page 26, revise paragraph 2.3.4.7 as shown:

2.3.4.7 Lithium Battery-Powered Electronic Devices

Lithium battery-powered electronic devices are permitted in checked and carry-on baggage with the approval of the operator as follows:

- (a) portable medical electronic devices (PMED), such as automated external defibrillators (AED), portable oxygen concentrators (POC) and continuous positive airway pressure (CPAP), containing lithium metal or lithium ion cells or batteries may be carried by passengers for medical use as follows:
 - 1. for lithium metal or lithium alloy batteries, a lithium content exceeding 2 g, but not exceeding 8 g; or
 - 2. for lithium ion batteries, a watt-hour rating exceeding 100 Wh, but not exceeding 160 Wh;
 - 3. batteries must be of a type that meets the requirements of the UN Manual of Tests and Criteria, Part III, subsection 38.3.
- (b) portable electronic devices, such as power tools, video cameras and laptops containing lithium ion batteries as follows:
 - 1. lithium ion batteries with a watt-hour rating exceeding 100 Wh, but not exceeding 160 Wh;
 - 2. batteries must be of a type that meets the requirements of the UN Manual of Tests and Criteria, Part III, subsection 38.3.
- (c) if devices are carried in checked baggage:
 - 1. ~~the passenger/crew member must take~~ 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).

Note:

For spare lithium metal batteries with a lithium content exceeding 2 g and lithium ion batteries with a Watt-hour rating exceeding 100 Wh see 2.3.3.2. For electronic devices with lithium metal batteries with a lithium content not exceeding 2 g and lithium ion batteries with a Watt-hour rating not exceeding 100 Wh see 2.3.5.9.

Page 27, revise paragraph 2.3.5.9 as shown:

2.3.5.9 Portable Electronic Devices (Including Medical Devices) Containing Batteries

Portable electronic devices, 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. 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. 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) 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;

- (d) 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. ~~the passenger/crew member must take~~ 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).**

Section 3

Page 152, revise paragraph 3.2.5.1 as below:

3.2.5.1 Definition

Class 2 also includes “aerosols”. For the purpose of these Regulations an aerosol or aerosol dispenser means any non-refillable receptacle made of metal, glass or plastic and containing a gas compressed, liquefied or dissolved under pressure, with or without a liquid, paste or powder and fitted with a **self-closing** release device allowing the contents to be ejected as solid or liquid particles in suspension in a gas, as a foam, paste or powder, or in a liquid or gaseous state.

Section 4

Table 4.2: Amend entries as shown:

UN/ ID no.	Proper Shipping Name/Description	Class or Div. (Sub Risk)	Hazard Label(s)	PG	EQ see 2.6	Passenger and Cargo Aircraft				Cargo Aircraft Only		S.P. see 4.4	ERG Code
						Ltd Qty		Pkg Inst	Max Net Qty/Pkg	Pkg Inst	Max Net Qty/Pkg		
						Pkg Inst	Max Net Qty/Pkg						
A	B	C	D	E	F	G	H	I	J	K	L	M	N
1790	Hydrofluoric acid 60% or less strength hydrogen fluoride	8(6.1)	Corrosive & Toxic	II	E2	Y840	0.5L	851	1L	855	30L		8P
1790	Hydrofluoric acid more than 60% strength hydrogen fluoride	8(6.1)	Corrosive & Toxic	I	E0	Forbidden		850	0.5L	854	2.5L		8P
2978	Radioactive material, uranium hexafluoride non-fissile or fissile excepted	7(6.1,8)	Radioactive & Toxic & Corrosive			Forbidden		See 10.3		See 10.3		A139	7L 7CP
2977	Radioactive material, uranium hexafluoride, fissile	7(6.1,8)	Radioactive & Toxic & Corrosive			Forbidden		See 10.3		See 10.3			7L 7CP

Page 405, revise Special Provision A212 as below:

A212 UN 2031, **Nitric acid**, other than red fuming, with more than 20% and less than 65% nitric acid intended for use in sterilization devices only, may be transported on passenger aircraft irrespective of the indication of “forbidden” in columns I/J of Table 4.2 provided:

- (a) each inner packaging contains not more than 30 mL;
- (b) each inner packaging is contained in a sealed leak-proof intermediate packaging with sufficient absorbent material capable of containing contents of the inner packaging;
- (c) intermediate packagings are securely packed in an outer packaging of a type permitted by Packing Instruction 855 meeting the Packing Group I performance requirements of 6.3;
- (d) the maximum quantity of nitric acid in the package does not exceed 300 mL; and
- (e) reference to Special Provision A212 is made on the Shipper's Declaration as required by 8.1.6.9.4, Step **69**, (a).

Section 5

Page 442, amend Packing Instruction 203 as shown:

PACKING INSTRUCTION 203

This instruction applies to aerosols in Division 2.1 and 2.2 and UN 2037 on passenger aircraft and Cargo Aircraft Only.

...

UN Number	Net quantity per package	
	Passenger aircraft	Cargo Aircraft only
UN 1950, Aerosols, flammable	75 kg	150 kg
UN 1950, Aerosols, flammable (engine starting fluid)	Forbidden	150 kg
UN 1950, Aerosols, non-flammable	75 kg	150 kg
UN 1950, Aerosols, non-flammable (tear gas devices)	Forbidden	150 kg 50 kg
UN 2037 Gas cartridges or Receptacles, small, containing gas	1kg	15 kg

...

Page 444, amend Packing Instruction Y203 as shown:

PACKING INSTRUCTION Y203

This instruction applies to Limited Quantities of aerosols and UN 2037.

...

Additional Packing Requirements

~~(a) packagings must meet Packing Group II performance standards;~~

~~(ba)~~ release valves on aerosols must be protected by a cap or other suitable means during transport to prevent inadvertent release of the contents;

~~(eb)~~ receptacles must be packed in the outer packaging so as to prevent excessive movement and inadvertent discharge during normal conditions of transport.

...

Page 598, amend Packing Instruction Y963 as shown:

PACKING INSTRUCTION Y963

This instruction applies to ID 8000, Consumer commodities on passenger aircraft and Cargo Aircraft Only.

Consumer commodities are materials that are packaged and distributed in a form intended or suitable for retail sale for purposes of personal care or household use. These include items administered or sold to patients by doctors or medical administrations.

Consumer commodities may only include substances of Class 2 (non-toxic aerosols only), Class 3 (Packing Group II or III), Division 6.1 (Packing Group III only), UN 3077, UN 3082, ~~and~~ UN 3175, ~~UN 3334 and UN 3335~~, provided such substances do not have a subsidiary risk. Dangerous goods that are forbidden for transport aboard passenger aircraft must not be transported as consumer commodities.

...

Section 10

Page 800, 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;
- (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 873 amend contact details for Jordan (HKJ) as follows:

Jordan (HKJ)

Civil Aviation Regulatory Commission

Jordan Civil Aviation Head Office

P.O. Box 7547

Amman

JORDAN

Tel: **+962 (6) 489 3211 or +962 (6) 489 2282** Ext: 3404

Telex: 21325 30

Fax: + 962 64 891 653

email: **dgeneral@jcaa.gov.jo**

email: **c.commissioner@carc.gov.jo**

Page 874 amend contact details for Malta (M) as follows:

Malta (M)*

Department of Civil AviationCivil Aviation Directorate
Luqa AirportVjal I-Avjazzjoni
Luqa CMR-02LQA 9023
MALTA

Tel: +356 2122 29362555 5653
Fax: +356 2123 92782555 5634
email: civil.aviation@transport.gov.mt

Page 877 amend contact details for Saudi Arabia (SA) as follows:

Saudi Arabia (SA)

Presidency of Civil AviationGeneral Authority of Civil Aviation (GACA)
Air Transport DepartmentSafety & Air Transport
P.O. Box 887
Jeddah 21421
SAUDI ARABIA

Tel.: (966) 12640 5000
Fax: (966) 12 640 3876

Page 878 after **Syrian Arab Republic (SYR)** add new contact details for Tanzania as follows:

Tanzania (EAT)

Tanzania Civil Aviation Authority -TCAA
Aviation House
Ukonga - Banana Area
Nyerere / Kitunda Road Junction
P.O.Box 2819
Dar Es Salaam
Tanzania
Tel: +255 22 2198196
Email: tcaa@tcaa.go.tz