



IATA Dangerous Goods Regulations

53rd Edition (English)
Effective 1 January 2012

ADDENDUM

Posted 26 April 2012

Users of the IATA Dangerous Goods Regulations are asked to note the following amendments and corrections to the 53rd Edition, effective from 1 January 2012.

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 add:

- After Belgium: Brazil BRG
- After China: Croatia HRG
- After Netherlands: Oman OMG

Add new **BRG (Brazil)**

BRG-01 The Brazilian National Authority for Annex 18 and competent authority for these Regulations is the:

Agência Nacional de Aviação Civil (ANAC)
Superintendência de Segurança Operacional – SSO
Gerência Técnica de Artigos Perigosos – GTAP
Av. Presidente Vargas 850 – 12^o andar
Cep.: 20.071-001 Centro
Rio de Janeiro
BRAZIL

Tel: +55 21 3501-5526

email: artigo.perigoso@anac.gov.br

BRG-02 Transportation of dangerous goods to, from or within Brazil must be subject to compliance with the provisions of these Regulations and the Brazilian Civil Aviation Regulations. A copy of all National Regulations can be obtained on the website: www.anac.gov.br/cargaarea

BRG-03 Air operators transporting dangerous goods must submit a monthly report of all dangerous goods transported from or within Brazil by the tenth working day of the following month. Further information and a report template are available on the website: www.anac.gov.br/cargaarea.

BRG-04 Dangerous goods requiring exemption or approval under these Regulations may only be carried on a passenger or cargo aircraft to, from or within Brazil with the approval of the National Civil Aviation Agency (ANAC). The request must be submitted at least fifteen days before the proposed flight for approvals and sixty days for exemptions. Further information and a request form may be obtained on the website: www.anac.gov.br/cargaarea or by e-mail: artigo.perigoso@anac.gov.br

BRG-05 For the carriage of dangerous goods originated in Brazil the template of the Shipper's Declaration for Dangerous Goods provided in IS - 175-001 must be used. An open form instead of the column form may be used provided all the information is given on the Shipper's Declaration for Dangerous Goods. In addition, electronic data is allowed provided it can be reproduced in a printed format if requested by the Brazilian Authority.

Note:

The format of the Shipper's Declaration for Dangerous goods shown in Figure 8.1.A and Figure 8.1.B comply with these requirements.

BRG-06 For all domestic transport in Brazilian territory, the Portuguese language must be used for all dangerous goods markings and transport documents. For international transport originating in Brazilian territory, English must be used for dangerous goods markings and transport documents in addition to the languages required by the States of transit and destination.

BRG-07 National legislation in Brazil specifies that training requirements are described in Supplementary Instruction IS-175-002. All employees working in Brazilian territory must be trained according to this instruction. A copy can be obtained on the website: www.anac.gov.br/cargaarea.

BRG-08 Transportation of radioactive material from or within Brazil must be subjected to approval by the National Commission for Nuclear Energy (CNEN):

CNEN - Transport Safety Service
Rua General Severiano, 90 / 401
Postal Code: 22.290-900
Tel: +55-21-2173-2308
nbruno@cnen.gov.br
www.cnen.gov.br

Amend **CAG (Canada)**

CAG-06 The transportation by air of dangerous goods to, from or within Canada is subject to the provisions of the Canadian Transportation of Dangerous Goods Regulations and of the ICAO Technical Instructions, as referenced in the said Regulations.

Requests for a copy of the Transportation of Dangerous Goods Regulations of Canada in document (Doc No. RE-4631), computer or microfiche format, should be sent to:

Canada Communication Group—Publishing
Ottawa
Ontario K1A 0S9
CANADA

or

See the following website for the text of the Transportation of Dangerous Goods Regulations of Canada:
www.tc.gc.ca/eng/tdg/clear-tofc-211.htm

CAG-07 Dangerous goods requiring approval under Special Provisions A1 or A2 of the Technical Instructions (see Subsection 4.2, Column M) may only be carried on a passenger or cargo aircraft to, from or within Canada with the approval of the Canadian authority for the air transport of dangerous goods (see 1.2.5, 8.1.6.9.4 and 8.3).

The Canadian authority for the air transport of dangerous goods for CAG-07:

Chief, Airspace Standards and Procedures
Transport Canada
Civil Aviation Directorate
Ottawa
Ontario K1A 0N8
CANADA

Tel: +1 (613) 998 9855
Fax: +1 (613) 954 1602
email: services@tc.gc.ca

Add HRG (Croatia)

HRG-01 The competent national authority in the Republic of Croatia for these Regulations is:

Croatian Civil Aviation Agency (CCAA)
Ulica grada Vukovara 284
10 000 Zagreb
CROATIA

Tel: +385 1 2369 300
Fax: +385 1 2369 310
email: ccaa@ccaa.hr
Website: www.ccaa.hr

HRG-02 The following requirements apply to aircraft registered:

- (a) in the Republic of Croatia no matter where they are operating;
- (b) in a State other than the Republic of Croatia and which are not required to operate under and in accordance with Annex III to Regulation (EC) NO. 3922/1991 ("EU-OPS") when they are operating in the Republic of Croatia.

Aircraft may only carry dangerous goods with prior approval of the Croatian Civil Aviation Agency (CCAA). Carriage of such goods must be in compliance with the latest effective edition of these Regulations, including any addenda.

Operators, AOC holders, whose head office is located in the European Union and who are required to operate under and in accordance with Annex III to Regulation (EC) No. 3922/1991 ("EU-OPS") do not require the approval of the Croatian Civil Aviation Agency, providing an approval granted by such a State is held.

HRG-03 Dangerous goods requiring approval under Special Provisions A1 or A2 of these Regulations or other State exemptions or approvals may only be carried on a passenger or cargo aircraft in Croatian territory with the approval of the Croatian Civil Aviation Agency (CCAA). Applications for approval should be lodged with the CCAA at least ten days prior to the proposed flight.

HRG-04 According to the Act on Radiological and Nuclear Safety (Official Gazette No. 28/10), for transportation of radioactive materials to and from the Republic of Croatia, the operator must ensure that the consignor/consignee is in possession of a prior approval. Application for prior approval may be addressed to:

State Office for Radiological and Nuclear Safety (SORNS)
Frankopanska 11
10 000 Zagreb
CROATIA

Tel: +385 1 4881 770
Fax: +385 1 4881 780
email: dzrns@dzrns.hr
Website: www.dzrns.hr

HRG-05 According to the Explosive Substances Act (Official Gazette No. 178/04, 109/07, 67/08 and 144/10), for transportation of explosives to and from the Republic of Croatia the operator must ensure that the consignor/consignee is in possession of a prior approval. Application for prior approval may be addressed to:

Ministry of Interior
Administrative and Inspection Authority
Ilica 335
10 000 Zagreb
CROATIA

Tel: +385 1 3788 646
Fax: +385 1 3788 187
email: pitanja@mup.hr
Website: www.mup.hr

Amend **NLG (Netherlands)**

NLG-01 Dangerous goods requiring approval under Special Provisions A1 or A2 of these Regulations, may not be transported on a passenger aircraft or cargo aircraft (as appropriate) to, from or through the Netherlands without prior approval of the Ministry of Transport, Public Works and Water Management, irrespective of whether or not the Netherlands is the State of origin (see 1.2.5, 8.1.6.9.4 and 8.3).

Application for all approvals should be made at least 10 days prior to the proposed flight date and must be submitted to:

Human Environment and Transport Inspectorate (CAA — NL)
Ministry of Infrastructure and the Environment
Certification and Approvals Department
Postbus 575
2130 AN Hoofddorp
The Netherlands

Tel: +31 70 456 3003
+31 88 489 0000 (outside office hours)
Fax: +31 70 456 3030
email: dgmelding@ilent.nl

NLG-02 Not used.

NLG-06 National legislation in the Netherlands specifies that an operator shall not carry dangerous goods without the prior permission of the Civil Aviation Authority in the Netherlands (CAA-NL) and that when such goods are carried, it must be in compliance with the Technical Instructions. This applies to operators carrying dangerous goods to and from the Netherlands (excluding overflight). Permission is provided by the issuance of a dangerous goods license to the operator and it will only be provided if the operator is in the possession of staff, which received training in accordance with the provisions in the Technical Instructions. Operators registered in the Netherlands and in a State other than the Netherlands which are required to operate under and in accordance with EU-OPS do not require permission of the Civil Aviation Authority of the Netherlands providing the permission granted by such a State is held.

Application for a dangerous goods license shall be made at least six weeks before the date of the first flight on which dangerous goods are to be carried. An application form is available from:

Human Environment and Transport Inspectorate (CAA — NL)
Ministry of Infrastructure and the Environment
Certification and Approvals Department
Postbus 575
2130 AN Hoofddorp
The Netherlands

Tel: +31 70 456 3003
+31 88 489 0000 (outside office hours)
Fax: +31 70 456 3030
email: dgmelding@ilent.nl

Add new **OMG (Oman)**

OMG-01 It is prohibited to transport dangerous goods to/from/over Oman except with the prior permission of the civil aviation authority after coordination with the competent authorities in accordance with the applicable rules and, in particular:

- a) explosives, weapons and war ammunition;
- b) nuclear goods, radioactive isotopes, poisonous gases and related objects;
- c) goods of dual use, like drugs;
- d) germs and dangerous goods; and

e) any other goods requiring approval under Special Provision A1 or A2.

Application for approval should be made at least five days prior to the proposed flight date and must be submitted to:

Director Flight Safety
Directorate General of Safety and Aviation Services
P.O. Box 1 P.C. 111
Muscat International Airport
SULTANATE OF OMAN

Amend **ROG (Romania)**

ROG-01 In accordance with Romanian legislation, all flights within the Bucharest FIR of civil aircraft carrying cargo consisting of weapons, ammunition, explosives, radioactive materials and other materials classified and regulated as dangerous goods can be performed only after obtaining a permit from the Ministry of Transport and Infrastructure.

The application for the above-mentioned permit has to be registered with the Romanian Civil Aviation Authority at the following address:

Romanian Civil Aeronautical Authority (RCAA)
Overflight Department
Sos. Bucuresti-Ploiesti, Nr. 38-40
Sector 1, Cod 013695
Bucuresti, ROMANIA

Tel: +40 21 208 15 00
Fax: +40 21 208 15 83
AFTN: LRBBYR
SITA: BUHTOYA
email: overflight@caa.ro

Romanian AIP section GEN 1.2 contains all details regarding the application form and other required specific documents.

In case the consignment contains radioactive materials, the air operator must provide to the Romanian Civil Aeronautical Authority a copy of the authorization issued by the National Commission for the Control of Nuclear Activities (CNCAN).

The contact information of the National Commission for the Control of the Nuclear Activity is as follows:

National Commission for the Control of the Nuclear Activity
B-dul. Libertatii, Nr. 14, Sector 5
Bucuresti, ROMANIA
Tel: +40 21 316 05 72
Fax: +40 21 317 38 87

ROG-02 ROG-01 does not apply in cases of air carriers performing medical emergency flights and in cases of flights by air carriers detaining an operator license in accordance with EU Regulation No. 1008/2008 and which do not carry dangerous goods classified as:

- Class 1 — all items;
- Class 3 — only desensitized explosives UN 1204, UN 2059, UN 3064, UN 3343, UN 3357 and UN 3379;
- Class 6 — only Division 6.2, Category A, UN 2814 and UN 2900;
- Class 7 — all items.

Such carriers shall only notify the Romanian Civil Aviation Authority before starting the flight with the following information: proper shipping name, UN number, class or division, and quantity.

ROG-04 Not used.

Amend **SGG (Singapore)**

SGG-01 In accordance with paragraph 50D of the Singapore Air Navigation Order, air operators wishing to carry dangerous goods into, transiting or out of Singapore must obtain a dangerous goods permit from the Civil Aviation Authority of Singapore (CAAS). Information and application forms for dangerous goods permits may be obtained from the CAAS website (www.caas.gov.sg). All applications are to be made on prescribed forms and addressed to:

Dangerous Goods Unit
Airworthiness/Flight Operations Division
Civil Aviation Authority of Singapore
Singapore Changi Airport
P.O. Box 1
SINGAPORE 918141

Tel: +65 6541 3487
Fax: +65 6545 6519
email: caas_dangerousgoods@caas.gov.sg

Add new:

SGG-02 Singapore Air Navigation Order (ANO) defines munitions of war (MOW) as “weapons and ammunition designed for use in warfare or against any person, including any part designed for such weapons and ammunition”. MOW includes weapons (for sporting and non-sporting purposes) such as rifles, pistols and guns, and weapon components and parts. MOWs may themselves contain or are loaded with explosives, cartridges, charges, primers and ammunitions which are classified as dangerous goods in accordance with these Regulations.

Operators wishing to carry munitions of war by air into, transiting or out of Singapore must obtain a MOW permit and a dangerous goods permit in accordance with paragraphs 50C and 50D of the Air Navigation Order.

Information and application forms for MOW permits may be obtained from the CAAS website (www.caas.gov.sg). All applications are to be made on prescribed forms and addressed to:

Dangerous Goods Unit
Airworthiness/Flight Operations Division
Civil Aviation Authority of Singapore
Singapore Changi Airport
P.O. Box 1
SINGAPORE 918141

Tel: +65 6541 3487
Fax: +65 6545 6519
email: caas_dangerousgoods@caas.gov.sg

Amend **VCG (Sri Lanka)**

VCG-03 Application for permission shall be made to the ~~Director General of Civil Aviation, Department of Civil Aviation, 64, Galle Road, Colombo-03, Sri Lanka, Fax: +94 (11) 242 4540,~~ at least ten days before the date of the first flight on which dangerous goods are to be carried to the:

Director General of Civil Aviation
Civil Aviation Authority of Sri Lanka
No: 4, Hunupitiya Road, Colombo 02
SRI LANKA

Fax: +94 11 230 4644 or +94 11 230 4649

New or Amended Operator Variations (Section 2.8.4)

In 2.8.3.4 List add:

- After Air Canada: Air Caraibes TX; and Air Caraibes Atlantique 8X
- After Air Hong Kong: Air India AI
- After Garuda Indonesia: Llc GloBus GH
- After SAUDI-Saudi Arabian Airlines: JSC Siberia Airlines S7
- After Spanair: Srilankan Airlines UL

In 2.8.3.4 List delete:

- Indian Airlines IC

In 2.8.3.4 List amend:

- TAM Linhas Aereas to read TAM Airlines

Add new 8X (Air Caraibes Atlantique)

8X-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 5 mSv/h is accepted for transport.

Add new AI (Air India)

AI-01 Explosives shall not be carried with the exceptions of items covered under UN 0012 and 0014 subject to approval from Director General Civil Aviation.

AI-02 Class 3, Flammable liquids in Packing Group I are not acceptable for carriage.

AI-03 Division 4.3, Substances which on contact with water emit flammable gases are not accepted for carriage.

AI-04 Dangerous Goods must not be consolidated with non-dangerous goods.

AI-05 Dry ice is limited as follows:

- a) Not more than 200 kg per aircraft is permitted on A319/A320/A321/B737.
- b) Not more than 1,500 kg per aircraft is permitted in A310/B747/B777.

AI-06 A 24 hour emergency telephone number must be provided in the "Handling Information" box of the Shipper's Declaration and air waybill.

AI-07 Fissile material shall not be accepted for carriage.

Amend BW (Caribbean Airlines)

BW-01 Caribbean Airlines shall not accept for carriage on its aircraft, substances with a primary or subsidiary risk of 6.1 in any form, **except if it is shipped for medical purposes.**

Amend CI (China Airlines)

CI-06 Radioactive Materials other than "Radioactive material, excepted package" are prohibited when **to or through transferring/transiting** Taiwan without prior approval by Taiwan authorities. A request for approval must be addressed to Atomic Energy Council/Taiwan by shipper 7 days prior to flight departs from the State of origin.

Atomic Energy Council
80, Section 1, Chenggong Road
Yonghe District
New Taipei City 23452
CHINESE TAIPEI

Tel: +886-2-8231 7919, Ext 2179/2187
Fax: +886-2-8231 7829

Amend CX (Cathay Pacific)

CX-04 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 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 67 50 00 00” (see 8.1.6.11 and 10.8.3.11).

A 24-hour emergency telephone number is not required for shipments that do not require a Shipper's Declaration for Dangerous Goods.

Note:

~~Contact for additional information or operator approval is:~~

~~Cargo Services Manager
Standards and Performance
Cargo Department
9/F South Tower, Cathay Pacific City
Hong Kong International Airport
HONG KONG~~

~~Tel: +852 27477164
Fax: +852 21417164
Teletype: HDQDGCX
email: ego#dgr@cathaypacific.com~~

CX-05 Liquid substances with a corrosive (Class 8) primary or subsidiary risk, packed in plastic drums or jerricans (1H1, 1H2, 3H1 & and 3H2) ~~when in an overpack~~ must be prepared as follows:

1. the plastic drums/jerricans must be protected by other strong outer packaging; or
2. if prepared as an open overpack, a suitably sized plastic pallet must be used to protect at least the top and bottom of the packaging.

CX-06 In addition to the requirements of 8.2.5, UN number(s) of all shipments of dangerous goods in excepted quantities must be indicated on the air waybill.

Add new

CX-07 UN 3090 Lithium metal batteries. Lithium metal cells and batteries are prohibited from carriage as cargo on Cathay Pacific Airways passenger carrying aircraft. This applies to both Section I and Section II of Packing Instruction 968.

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 and lithium ion cells and batteries (UN 3480 and UN 3481) in accordance with PI 965 to PI 967; 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).

CX-08 All shipments of lithium batteries contained in equipment prepared in accordance with Section II of PI 967 or PI 970 must include the mandatory wording on the air waybill as shown in Section II (“Lithium ion batteries” “not restricted” “PI 967” or “Lithium metal batteries” “not restricted” “PI 970”). This applies even to shipments where no lithium battery handling label is required to be affixed to the package(s).

Amend **D0 (DHL Air Limited-DHL)**

D0-01 Dangerous goods shipments transported by DHL Air Limited (DHL) will only be accepted by advance arrangements and approval by the Regional Restricted Commodities Group–DHL Express Europe Headquarters before presenting for transport.

Regional Restricted Commodities Group–DHL Express Europe Headquarters

Tel: +32 (2) 711 7654 +49 (0) 341 4499 4949

Fax: +32 (2) 711 7010 +49 (0) 4499 88 4982

email: rcgalert@dhl.com

D0-02 The waybill for dangerous goods in “Excepted Quantities” must show the applicable UN Number in addition to the requirements of 2.6.8.2.

D0-03 All lithium batteries, including refurbished, prepared under section II of packing instructions 965-970 will only be accepted for carriage with the approval of Regional/Global Restricted Commodities Group – DHL Express Europe Headquarters.

D0-08 Hand written Shipper's Declarations will not be accepted. The following fields on the Shipper's Declaration must be typed or computer generated:

- UN or ID number including the prefix;
- proper shipping name;
- hazard class or division;
- subsidiary risk or division(s);
- packing group;
- packaging type;
- packing instruction;
- authorization;
- emergency telephone number.

Note:

The technical name, when required, may be handwritten. For radioactive shipments, in addition to the items listed above the following must also be typed or computer generated:

- *Radionuclide, Special Form or Physical and Chemical Form, all other entries may be handwritten.*

Handwritten alterations/amendments to an entry required to be typed per D0-08 are acceptable if each alteration/amendment is legible and signed with the same signature used to sign the Shipper's Declaration.

Amend **EY (ETIHAD Airways)**

EY-02 All Class 1 Explosives, Division 6.2 Infectious substances and Class 7 Radioactive materials as defined in these Regulations, will not be accepted for carriage unless prior approval and booking arrangements are obtained from:

ETIHAD Airways Cargo Reservations

PO Box 35566

Cargo Village

Abu Dhabi International Airport

United Arab Emirates

Tel: +971 2 509 1222 599 0099

email: cargoreservations@ETIHAD.ae

EY-03 Dangerous goods in single packagings and cryogenic containers (Dewars), are not accepted for carriage unless overpacked ~~on a suitably sized wooden pallet to protect the base of the packaging.~~

EY-04 Fully Regulated Lithium Batteries (RLI/RLM) will not be accepted (see PI 965 – PI 970).

Add new **GH (Llc GloBus)**

GH-01 Shipment of dangerous goods transported by Llc GloBus flights will only be acceptable after getting advance approval of Llc GloBus. Requests for dangerous goods shipments must be sent to the following email address:

email: cgo@s7.ru

Request for approval must be submitted and be made according to the special form of approval (form is provided by request). Form of approval to be attached to the set of accompanying documents and forwarded on board to the crew by the handling company at the airport of departure.

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.

GH-03 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 an accident or incident concerning (any 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 Shipper's DGD in the "Additional Handling Information" box, e.g. "Emergency Contact +7(495)-123-45-78".

Delete all **IC (Indian Airlines)**

IC-01 to IC-13

Amend **JJ (TAM Airlines)**

JJ-01 Class 1, explosives, will not be accepted for carriage, ~~except substances and articles of Division 1.4.S, limited to a net quantity of 5.0 kg per package~~ (see Packing Instructions 101–143).

JJ-03 ~~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 the case of an accident or incident concerning each of the dangerous goods being transported.~~

~~This telephone number, including the country and area code, preceded by the words "Emergency Contact" or "24-hour number" must be inserted on the declaration for dangerous goods in the "Handling Information" box (see 8.1.6.11 and 10.8.3.11).~~

JJ-05 ~~The MSDS must include the UN number, proper shipping name and all other relevant transport information. This variation applies to domestic and international flights Besides the shipper's declaration for dangerous goods, all shipments containing dangerous goods must be accompanied by a document describing emergency procedures, with specific and proper information related to the material (such as a material safety data sheet (MSDS) or similar), which must include at least:~~

- ~~(a) the description of the goods;~~
- ~~(b) immediate hazards to health;~~
- ~~(c) risks of fire or explosion;~~
- ~~(d) immediate precautions to be taken in the event of an accident or incident;~~
- ~~(e) immediate methods for handling fire;~~
- ~~(f) initial methods for handling spills or leaks in the absence of a fire;~~
- ~~(g) preliminary first aid measures.~~

~~This document must be issued in Portuguese for domestic flights with an additional version in English or Spanish, as applicable, for international flights.~~

This requirement does not apply to shipments of carbon dioxide, solid (dry ice) (UN 1845); battery-powered vehicles and equipment (UN 3171); internal combustion engines and vehicles (UN 3166); or magnetized material (UN 2807) (see 8.0.1 and 8.3).

JJ-06 Biological Substance, Category B will be **only be accepted from approved TAM Cargo customers.**

- ~~• The shipper must provide a document complying with the classification on UN 3373;~~
- ~~• The substances must be packed according to Packing Instruction 650.~~

Add new

JJ-07 All combination packagings containing liquid dangerous goods must contain sufficient absorbent material to absorb the entire contents of all the inner packagings independently of packing groups.

JJ-08 The carriage of UN 1845 — Carbon dioxide, solid (dry ice) will be limited to the following:

- narrow-body aircraft A319/A320/A321 — 350 kg; and
- wide-body aircraft A330/A340/B767/B777 — 1,500 kg.

Transportation of larger amounts can be achieved only with prior contact and authorization by TAM Cargo.

JJ-09 Cylinders, empty or full with compressed gas, will not be accepted for transportation as baggage on flights operated by TAM Airlines.

Should a passenger require supplementary oxygen, it will be provided by the operator for the duration of the flight provided a request 72 hours (at a minimum) prior to the flight is made to TAM Airlines.

Additional information can be obtained through the reservation office of TAM Airlines.

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

KA-04 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 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 67 50 00 00” (see 8.1.6.11 and 10.8.3.11).

A 24-hour emergency telephone number is not required for shipments that do not require a Shipper's Declaration for Dangerous Goods.

Note:

Contact for additional information or operator approval is:

Cargo Services Manager
Standards and Performance
Cargo Department
9/F South Tower, Cathay Pacific City
Hong Kong International Airport
HONG KONG

Tel: +852 27477164
Fax: +852 21417164
Teletype: HDQDGCX
email: ego#dgr@cathaypacific.com

KA-05 Liquid substances with a corrosive (Class 8) primary or subsidiary risk, packed in plastic drums or jerricans (1H1, 1H2, 3H1 & and 3H2) **when in an overpack** must be prepared as follows:

3. the plastic drums/jerricans must be protected by other strong outer packaging; or
4. if prepared as an open overpack, a suitably sized plastic pallet must be used to protect at least the top and bottom of the packaging.

KA-06 In addition to the requirements of 8.2.5, UN number(s) of all shipments of dangerous goods in excepted quantities must be indicated on the air waybill.

Add new

KA-07 UN 3090 Lithium metal batteries. Lithium metal cells and batteries are prohibited from carriage as cargo on Dragonair passenger carrying aircraft. This applies to both Section I and Section II of Packing Instruction 968.

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 and lithium ion cells and batteries (UN 3480 and UN 3481) in accordance with PI 965 to PI 967; 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).

KA-08 All shipments of lithium batteries contained in equipment prepared in accordance with Section II of PI 967 or PI 970 must include the mandatory wording on the air waybill as shown in Section II (“Lithium ion batteries” “not restricted” “PI 967” or “Lithium metal batteries” “not restricted” “PI 970”). This applies even to shipments where no lithium battery handling label is required to be affixed to the package(s).

Amend **LD (Air Hong Kong)**

LD-04 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 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 67 50 00 00” (see 8.1.6.11 and 10.8.3.11).

A 24-hour emergency telephone number is not required for shipments that do not require a Shipper's Declaration for Dangerous Goods.

Note:

Contact for additional information or operator approval is:

Manager Cargo Services
4/F South Tower, Cathay Pacific City
Hong Kong International Airport
HONG KONG

Tel: +852 2761 8447

Fax: +852 2761 8586

Teletype: HKGFZLD

email: edwick.wong@airhongkong.com.hk

LD-0506 In addition to the requirements of 8.2.5, UN number(s) of all shipments of dangerous goods in excepted quantities must be indicated on the air waybill.

Add new

LD-05 Liquid substances with a corrosive (Class 8) primary or subsidiary risk, packed in plastic drums or jerricans (1H1, 1H2, 3H1 & 3H2) when in an overpack must be prepared as follows:

1. if prepared as an open overpack, the base must use a plastic pallet; or
2. the plastic drums/jerricans must be protected by other strong outer packaging.

LD-07 All shipments of lithium batteries contained in equipment prepared in accordance with Section II of PI 967 or PI 970 must include the mandatory wording on the air waybill as shown in Section II (“Lithium ion batteries” “not restricted” “PI 967” or “Lithium metal batteries” “not restricted” “PI 970”). This applies even to shipments where no lithium battery handling label is required to be affixed to the package(s).

Amend **OM (Mongolian Airlines)**

OM-04 Except for ID 8000, Consumer commodity, dangerous goods in limited quantities (“Y” packing instructions) will not be accepted for carriage (see Subsection 2.7).

Amend **QR (Qatar Airways)**

Add new

QR-04 The following will not be accepted for carriage on Qatar Airways passenger flights:

- UN 3090 – lithium metal batteries;
- UN 3091 – lithium metal batteries contained in equipment;
- UN 3091 – lithium metal batteries packed with equipment.

The above include both Section I (fully regulated) and Section II (excepted) (see PI 968 – 970).

Amend **QT (TAMPA Cargo)**

QT-02 Mercury (UN 2809) will be accepted for carriage, provided the following conditions are complied with:

- (a) only combination packaging will be accepted;
- (b) outer packaging must have a strong inner lining, or bags of strong leak-proof, puncture-resistant material, impervious to mercury; must meet Packing Group I performance standards;
- (c) must be over packed with a plastic skid.

Amend **QY (European air Transport Leipzig GmbH–DHL)**

QY-01 Dangerous goods shipments transported by European Air Transport Air Leipzig GmbH (DHL) will only be accepted by advance arrangements and approval by the Regional Restricted Commodities Group–DHL Express Europe Headquarters before presenting for transport.

Regional Restricted Commodities Group–DHL Express Europe Headquarters

Tel: +32 (2) 711 7654 +49 (0) 341 4499 4949

Fax: +32 (2) 711 7010 +49 (0) 4499 88 4982

email: rcalert@dhl.com

QY-02 The waybill for dangerous goods in “Excepted Quantities” must show the applicable UN Number in addition to the requirements of 2.6.8.2.

QY-03 All lithium batteries, including refurbished, prepared under section II of packing instructions 965-970 will only be accepted for carriage with the approval of Regional/Global Restricted Commodities Group – DHL Express Europe Headquarters.

QY-08 Hand written Shipper's Declarations will not be accepted. The following fields on the Shipper's Declaration must be typed or computer generated:

- UN or ID number including the prefix;
- proper shipping name;
- hazard class or division;
- subsidiary risk or division(s);
- packing group;
- packaging type;
- packing instruction;
- authorization;

- emergency telephone number.

Note:

The technical name, when required, may be handwritten. For radioactive shipments, in addition to the items listed above the following must also be typed or computer generated:

- *Radionuclide, Special Form or Physical and Chemical Form, all other entries may be handwritten.*

Handwritten alterations/amendments to an entry required to be typed per D0-08 are acceptable if each alteration/amendment is legible and signed with the same signature used to sign the Shipper's Declaration.

Amend RJ (Royal Jordanian)

RJ-02 Not used.

Add new S7 (JSC Siberia Airlines)

S7-01 Shipment of dangerous goods transported by Siberia Airlines flights will only be acceptable after getting advance approval of Siberia Airlines. Requests for dangerous goods shipments must be sent to the following email address:

email: cgo@s7.ru

Request for approval must be submitted and be made according to the special form of approval (form is provided by request). Form of approval to be attached to the set of accompanying documents and forwarded on board to the crew by the handling company at the airport of departure.

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.

S7-03 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 an accident or incident concerning (any 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 Shipper's DGD in the "Additional Handling Information" box, e.g. "Emergency Contact +7 (495) 123 45 78".

Add new TX (Air Cariabes)

TX-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 5 mSv/h is accepted for transport.

Amend UA (United Airlines)

UA-02 Division 6.1 Toxic Substances are only accepted:

- on B747, B767, B777, B787 or other containerized cargo aircraft;
- when these shipments are PG II or **PI PG III**;
- for medical purposes only;
- without inhalation toxicity.
- the Shipper's Declaration for the Toxic Materials must contain a certifying statement the shipment contains materials intended for use in, or incident to medical purposes.

Add new UL (Srilankan Airlines)

UL-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 the case of an accident or incident concerning each of the dangerous goods being transported. This telephone number, including the country and area code, preceded by the words "Emergency Contact" or "24-hour number" must be inserted on the

shipper's declaration for dangerous goods, preferably in the "Additional Handling Information" box (see 8.1.6.11 and 10.8.3.11).

This will be applied on shipments to, from or transiting through Sri Lanka. The 24-hour emergency telephone number is not required for shipments that do not require a shipper's declaration for dangerous goods.

Additional information or operator approval can be obtained from:

Dangerous Goods Policies Manager
Srilankan Airlines
Cargo Centre
Bandaranike International Airport
Katunayake
SRI LANKA

Tel: +94 1 9733 2422
+94 1 9733 2455
Fax: +94 1 9733 5288
Teletype: CMBDGUL
email: cargodg@srilankan.aero

UL-02 Items listed in these Regulations which are totally forbidden or forbidden on passenger aircraft will not be accepted for transportation.

UL-03 Prior approval from the carrier is needed for shipments of explosives and weapons.

UL-04 Dangerous goods in airmail will not be accepted for carriage.

UL-05 A brief text in the English language indicating the nature of the risk involved shall appear on all hazard labels. The text should appear prominently in English in the lower half of the label as described in 7.2.2.4.

Package and overpack markings required by these Regulations must be completed in English in addition to the language which may be required by the State of Origin (see Figure 7.3.A through Figure 7.3.V and Figure 7.4.A and 10.7.7).

UL-06 Prior approval is required for shipments containing radioactive material. Information can be obtained from:

Atomic Energy Authority
Head, Radiation Protection
No. 60/460, Baseline Road
Orugodawatta
Wellampitiya
Sri Lanka

Tel: +94 11 253 3427-8 or
+94 11 253 4209
Fax: +94 11 253 3448
email: anil@aea.ac.lk

UL-07 Gaseous oxygen or air cylinders required for medical use will not be accepted for carriage. Contact carrier for more details (see 2.3.4.1).

Section 2

Page 20/21 amend 2.3.2.2 to 2.3.2.4 as shown:

2.3.2.2 Wheelchairs/Mobility Aids with Non-spillable Wet Batteries or with Batteries which Comply with Special Provision A123

Battery-powered wheelchairs or other similar mobility aids for use by passengers whose mobility is restricted by either a disability, their health or age, or a temporary mobility problem (e.g. broken leg), with non-spillable wet batteries or with batteries which comply with Special Provision A123:

- (a) non-spillable batteries must comply with Special Provision A67 or the vibration and pressure differential tests of Packing Instruction 872;
- (b) the operator must verify that:
 - (1) the battery terminals are protected from short circuits, e.g. by being enclosed within a battery container;
 - (2) the battery is securely attached to the wheelchair or mobility aid. (see 9.3.16.4 and Figure 9.3.H);
 - (3) electrical circuits have been isolated.
- (c) the wheelchair/mobility aid must be carried such that it is protected from being damaged by the movement of baggage, mail, stores or cargo;
- (d) where a battery-powered or other similar mobility aid is specifically designed to allow its battery(ies) to be removed by the user (e.g. collapsible):
 - (1) the battery(ies) must be removed. The wheelchair / mobility aid may then be carried as checked baggage without restriction;
 - (2) the removed battery(ies) must be carried in strong, rigid packagings which must be carried in the cargo compartment;
 - (3) the battery(ies) must be protected from short circuit; and
 - (4) the pilot-in-command must be informed of the location of the packed battery.
- (e) It is recommended that passengers make advance arrangements with each operator.

2.3.2.3 Wheelchairs/Mobility Aids with Spillable Batteries

2.3.2.3.1 Battery-powered wheelchairs or other similar mobility aids for use by passengers whose mobility is restricted by either a disability, their health or age, or a temporary mobility problem (e.g. broken leg), with spillable batteries:

- (a) provided that the wheelchair or mobility aid can be loaded, stowed, secured and unloaded always in an upright position then the battery may remain installed in the wheelchair. The operator must verify that:
 - (1) the battery terminals are protected from short circuits, e.g. by being enclosed within a battery container;
 - (2) the battery is securely attached to the wheelchair or mobility aid (see 9.3.16.4 and Figure 9.3.H);
 - (3) electrical circuits have been isolated;
 - (4) wheelchairs or other battery-powered mobility aids must be carried in a manner such that they are protected from being damaged by the movement of baggage, mail or cargo.
- (b) if the wheelchair or mobility aid cannot be loaded, stowed, secured and unloaded always in an upright position, the battery must be removed. The wheelchair or mobility aid may then be carried as checked baggage without restriction;
- (c) the removed battery must be carried in strong, rigid packagings as follows:
 - (1) packagings must be leak-tight, impervious to battery fluid and be protected against upset by securing to pallets or by securing them in cargo compartments using appropriate means of securement (other than by bracing with freight or baggage) such as by use of restraining straps, brackets or holders;
 - (2) batteries must be protected against short circuits, secured upright in these packagings and surrounded by compatible absorbent material sufficient to absorb their total liquid contents; and
 - (3) these packagings must be marked "BATTERY, WET, WITH WHEELCHAIR" or "BATTERY, WET, WITH MOBILITY AID" and be labelled with the "Corrosive" label (see Figure 7.3.U) and with the "Package Orientation" label (see Figures 7.4.E and 7.4.F).

2.3.2.3.2 The pilot-in-command must be informed of the location of a wheelchair or mobility aid with an installed battery or the location of a packed battery. It is recommended that passengers make advance arrangements with each operator; also that batteries which are spillable should be fitted with spill-resistant vent caps when feasible (see 9.3.16.4 and Figure 9.3.H).

2.3.2.4 Wheelchairs/Mobility Aids with Lithium Batteries

Lithium-ion battery powered wheelchairs or other similar mobility aids for use by passengers whose mobility is restricted by either a disability, their health or age, or a temporary mobility problem (e.g. broken leg), subject to the following conditions:

- (a) the batteries must be of a type which meets the requirements of each test in the UN Manual of Tests and Criteria, Part III, subsection 38.3;
- (b) **the operator must verify that:**
 - (1) the battery terminals **are** protected from short circuits, e.g. by being enclosed within a battery container;
 - (2) the battery **is** securely attached to the wheelchair or mobility aid. (see 9.3.16.4 and Figure 9.3.H);
 - (3) **electrical circuits have been isolated.**
- (c) **the mobility aids must be carried in a manner such that they are protected from being damaged by the movement of baggage, mail or other cargo;**
- (d) **where a battery-powered or other similar mobility aid is specifically designed to allow its battery(ies) to be removed by the user (e.g. collapsible):**
 - (1) **the battery(ies) must be removed. The wheelchair / mobility aid may then be carried as checked baggage without restriction;**
 - (2) **the battery(ies) must be protected from short circuit by insulating the terminals (e.g. by taping over exposed terminals);**
 - (3) **the removed battery(ies) must be protected from damage (e.g.) by placing each battery in a protective pouch. The battery(ies) must be carried in the passenger cabin;**
 - (4) **removal of the battery from the device must be performed by following the instructions of the manufacturer or device owner;**
 - (5) **the battery must not exceed 300 Wh;**
 - (6) **a maximum of one spare battery not exceeding 300 Wh or two spares each not exceeding 160 Wh may be carried.**
- (e) **the pilot-in-command must be informed of the location of the mobility aid with an installed battery or the location of the lithium battery when removed and carried in the cabin;**
- (f) it is recommended that passengers make advance arrangements with each operator.

Section 4

Table 4.2: Revise the entries as shown:

UN/ ID no. A	Proper Shipping Name/Description B	Class or Div. (Sub Risk) C	Hazard Label(s) D	PG E	EQ see 2.6 F	Passenger and Cargo Aircraft				Cargo Aircraft Only		S.P. see 4.4 M	ERG Code N
						Ltd Qty		Pkg Inst I	Max Net Qty/Pk g J	Pkg Inst K	Max Net Qty/Pkg L		
						Pkg Inst G	Max Net Qty/Pkg H						
3485	Calcium hypochlorite, dry, corrosive with > 39% available chlorine (8.8% available oxygen)	5.1 (8)	Oxidizer & Corrosive	II	E2	Y544	2.5 kg	558	5 kg	562	25 kg	A136	5C
3487	Calcium hypochlorite, hydrated, corrosive with ≥ 5.5% but ≤ 16% water	5.1 (8)	Oxidizer & Corrosive	II III	E2 E1	Y544 Y545	2.5 kg 5 kg	558 559	5 kg 25 kg	562 563	25 kg 100 kg	A136	5C 5C
3487	Calcium hypochlorite, hydrated mixture, corrosive with ≥ 5.5% but ≤ 16% water	5.1 (8)	Oxidizer & Corrosive	II III	E2 E1	Y544 Y545	2.5 kg 5 kg	558 559	5 kg 25 kg	562 563	25 kg 100 kg	A136	5C 5C
3486	Calcium hypochlorite, mixture, dry, corrosive with > 10% but ≤ 39% available chlorine	5.1 (8)	Oxidizer & Corrosive	III	E1	Y545	5 kg	559	25 kg	563	100 kg	A136	5C
3485	Calcium hypochlorite, dry, corrosive with > 39% available chlorine (8.8% available oxygen)	5.1 (8)	Oxidizer & Corrosive	II	E2	Y544	2.5 kg	558	5 kg	562	25 kg	A136	5C

Section 7

Page 593 – Amend 7.1.4.1 as shown:

7.1.4.1 Unless all markings representative of all dangerous goods in the overpack are clearly visible, the overpack must be marked with:

- the word “overpack”;
- the required markings of 7.1.5.1 (a), (b), (e) through (i);
- the required markings of 7.1.5.4;
- the required markings of 7.1.6.1, 7.1.6.2 and 7.1.6.3;
- any special handling instructions appearing on packages inside the overpack.

Package specification marking must not be reproduced on the overpack as the word “Overpack” indicates that packages contained within, comply with the prescribed specifications. **When packages containing dangerous goods in limited quantities are placed in an overpack, the outside of the overpack must also be marked with the limited quantity marking shown in Figure 7.1.A unless the overpack marking on the packages is visible.** For an overpack containing packages of radioactive material, see 10.7.1.4.

Appendix D.1

Page 770 – Amend the contact details for Canada as shown:

Chief, Airspace Standards and Procedures
Transport Canada
Civil Aviation Directorate
Ottawa, Ontario
Canada K1A 0N8

Tel: +1 (613) 998-9855
Fax: +1 (613) 954-1602
email: services@tc.gc.ca

Page 771 – Insert new:

CROATIA (HR)

Croatian Civil Aviation Agency (CCAA)
Ulica grada Vukovara 284
10 000 Zagreb, CROATIA

Tel: +385 1 2369 300
Fax: +385 1 2369 310
email: ccaa@ccaa.hr
Website: www.ccaa.hr

Page 775 – Amend the contact details for Oman as shown:

Director Flight Safety
Directorate General of Safety and Aviation Services
P.O. Box 1 P.C. 111
Muscat International Airport
Sultanate of Oman

Appendix D.2

Page 782 – Amend the details for Croatia as shown:

State Office for Radiological and Nuclear Safety (SORNS)
Frankopanska 11
10 000 ZAGREB, Croatia

Tel: +385 1 4881 770
Fax: +385 1 4881 780
email: dzrns@dzrns.hr
Website: www.dzrns.hr

Appendix E.2

Page 817 – Under Italy delete Istituto Sperimentale delle Ferrovie di Stato F/A

Insert new:

CSI Spa
Viale Lombardia, 20
20021 Bollate (Mi)
ITALY

Tel: +39 (02) 3833 0267
Fax: +39 (02) 3833 0221
Website: www.csi-spa.com