

ประกาศสำนักงานการบินพลเรือนแห่งประเทศไทย

เรื่อง การยกเว้นมาตรการและแนวทางปฏิบัติในการขนส่งสินค้าภายในห้องโดยสารของผู้ดำเนินการเดินอากาศ ในสถานการณ์ที่มีโรคติดเชื้อไวรัสโคโรนา ๒๐๑๙ (COVID-19) (ฉบับที่ ๓)

ตามที่ สำนักงานการบินพลเรือนแห่งประเทศไทยได้ออกประกาศสำนักงานการบินพลเรือน แห่งประเทศไทย เรื่อง การยกเว้นมาตรการและแนวทางปฏิบัติในการขนส่งสินค้าภายในห้องโดยสารของ ผู้ดำเนินการเดินอากาศ ในสถานการณ์ที่มีโรคติดเชื้อไวรัสโคโรนา ๒๐๑๙ (COVID-19) ประกาศ ณ วันที่ ๒๔ เมษายน พ.ศ. ๒๕๖๓ และประกาศสำนักงานการบินพลเรือนแห่งประเทศไทย เรื่อง การยกเว้นมาตรการและแนวทางปฏิบัติ ในการขนส่งสินค้าภายในห้องโดยสารของผู้ดำเนินการเดินอากาศ ในสถานการณ์ที่มีโรคติดเชื้อไวรัสโคโรนา ๒๐๑๙ (COVID-19) (ฉบับที่ ๒) ประกาศ ณ วันที่ ๒๕ พฤษภาคม พ.ศ. ๒๕๖๓ ซึ่งได้ยกเว้นหลักเกณฑ์ตามมาตรฐานและ ข้อพึงปฏิบัติบางประการให้แก่ผู้ดำเนินการเดินอากาศ และกำหนดหลักเกณฑ์เพื่อให้เกิดความปลอดภัยในการขนส่ง สินค้าภายในห้องโดยสารของผู้ดำเนินการเดินอากาศ นั้น

เนื่องจากปัจจุบันสถานการณ์การแพร่ระบาดของผู้ติดเชื้อโรคติดเชื้อไวรัสโคโรนา ๒๐๑๙ (COVID-19) ยังคงอยู่ต่อไป ดังนั้น เพื่อเป็นการบรรเทาผลกระทบในทางเศรษฐกิจเนื่องจากการปฏิบัติตามมาตรการของรัฐ สำนักงานการบินพลเรือนแห่งประเทศไทยจึงเห็นสมควรแก้ไขปรับปรุงการยกเว้นมาตรการและแนวทางปฏิบัติ ในการขนส่งสินค้าภายในห้องโดยสารของผู้ดำเนินการเดินอากาศในสถานการณ์ที่มีโรคติดเชื้อไวรัสโคโรนา ๒๐๑๙ (COVID-19) ดังต่อไปนี้

ข้อ ๑ ให้ยกเลิกประกาศสำนักงานการบินพลเรือนแห่งประเทศไทย เรื่อง การยกเว้นมาตรการหรือ การดำเนินการเพื่อการกำกับดูแลผู้ดำเนินการเดินอากาศ ในสถานการณ์ที่มีโรคติดเชื้อไวรัสโคโรนา ๒๐๑๙ (COVID-19) (ฉบับที่ ๒) ประกาศ ณ วันที่ ๒๕ พฤษภาคม พ.ศ. ๒๕๖๓

ข้อ ๒ ให้ยกเลิกความในข้อ ๔ ของประกาศสำนักงานการบินพลเรือนแห่งประเทศไทย เรื่อง การยกเว้นมาตรการและแนวทางปฏิบัติในการขนส่งสินค้าภายในห้องโดยสารของผู้ดำเนินการเดินอากาศ ในสถานการณ์ที่มีโรคติดเชื้อไวรัสโคโรนา ๒๐๑๙ (COVID-19) ประกาศ ณ วันที่ ๒๔ เมษายน พ.ศ. ๒๕๖๓ และ ให้ใช้ความต่อไปนี้แทน

"๔. แนวปฏิบัติในการขนส่งสินค้าภายในห้องโดยสารของผู้ดำเนินการเดินอากาศให้เป็นไปตาม ที่กำหนดไว้ใน Guidelines for the Transport of Cargo in the Passenger Compartment, Revision 2 ที่ แนบท้าย ประกาศนี้" ข้อ ๓ ให้ยกเลิกความในข้อ ๖ ประกาศสำนักงานการบินพลเรือนแห่งประเทศไทย เรื่อง การยกเว้น มาตรการและแนวทางปฏิบัติในการขนส่งสินค้าภายในห้องโดยสารของผู้ดำเนินการเดินอากาศ ในสถานการณ์ ที่มีโรคติดเชื้อไวรัสโคโรนา ๒๐๑๙ (COVID-19) ประกาศ ณ วันที่ ๒๔ เมษายน พ.ศ. ๒๕๖๓ และให้ใช้ความต่อไปนี้แทน

"๖. พนักงานเจ้าหน้าที่จะให้การรับรองการขนส่งสินค้าภายในห้องโดยสาร เมื่อได้ตรวจสอบเอกสาร และหลักฐานต่าง ๆ ตาม ๕. และประเมินขั้นตอนวิธีการปฏิบัติการ รวมถึงมาตรการควบคุมและการกำกับดูแลการ ขนส่งสินค้าภายในห้องโดยสารแล้ว เห็นว่าสอดคล้องกับการปฏิบัติการที่เสนอขอ และสามารถดำเนินการขนส่งสินค้า ภายในห้องโดยสารอยู่ในระดับความปลอดภัยที่ยอมรับได้ (Acceptable Level of Safety) โดยหนังสือรับรองจะมีอายุ ๖ เดือนนับจากวันที่ออก แต่ทั้งนี้ไม่เกินวันที่ ๑๑ มีนาคม พ.ศ. ๒๕๖๔"

ข้อ ๔ ให้ขยายระยะเวลาการรับรองการขนส่งสินค้าภายในห้องโดยสารของผู้ดำเนินการเดินอากาศ ที่พนักงานเจ้าหน้าที่ได้ให้การรับรองไว้แล้วก่อนวันที่ประกาศฉบับนี้มีผลใช้บังคับออกไปอีก ๘ เดือนนับจากวันที่ ได้ให้การรับรองครั้งแรก ทั้งนี้ ไม่เกินวันที่ ๓๑ มีนาคม พ.ศ. ๒๕๖๔ โดยผู้ดำเนินการเดินอากาศจะต้องปฏิบัติการ ให้สอดคล้องตามแนวปฏิบัติในการขนส่งสินค้าภายในห้องโดยสารของผู้ดำเนินการเดินอากาศตาม Guidelines for the Transport of Cargo in the Passenger Compartment, Revision 2 ที่แนบท้ายประกาศนี้

ทั้งนี้ ตั้งแต่บัดนี้เป็นต้นไป

ประกาศ ณ วันที่ 100 กันยายน พ.ศ. ๒๕๖๓

(นายจุฬา สุขมานพ)

ผู้อำนวยการสำนักงานการบินพลเรือนแห่งประเทศไทย

Guidelines for the Transport of Cargo in the Passenger Compartment แนบท้ายประกาศสำนักงานการบินพลเรือนแห่งประเทศไทย เรื่อง การยกเว้นมาตรการและแนวทางปฏิบัติในการขนส่งสินค้าภายในห้องโดยสารของผู้ดำเนินการเดินอากาศ ในสถานการณ์ที่มีโรคติดเชื้อ ไวรัสโคโรนา 2019 (COVID-19) ประกาศ ณ วันที่ 30 กันยายน พ.ศ. 2563



Guidelines for the Transport of Cargo in the Passenger Compartment

Revision 2



Guidelines for the Transport of Cargo in the Passenger Compartment

1. Request for Approval

- 1.1 Cargo shall only be transported by operators holding valid Cargo transport approvals with aeroplanes certified under the Airworthiness Standard of Large Aeroplanes.
- 1.2 Any operators wishing to apply for an approval to carry cargo in the passenger compartment shall contact the Civil Aviation Authority of Thailand (CAAT) in writing and provide the following:
 - a. Official request letter
 - b. Safety risk assessments with supporting evidences (refer to section 2.1)
 - c. Operating procedures to demonstrate that the requirements set out in this guideline can fully be met.

2. Procedures

2.1 Safety risk assessments shall be performed in order to identify hazards, evaluate and mitigate correlated risks related to operating cargo flights using cabin configurations which have been approved for transporting only passengers.

Some examples of possible risks include, but are not limited to, the following:

- a. Operator's general knowledge of cargo transport;
- b. The detection of any smoke or fire and firefighting capabilities of personnel in the cabin;
- c. Qualification and abilities of crew member or other personnel to control and put out fire in the cabin;
- d. The provision, location and storage of sufficient firefighting equipment such as portable breathing equipment, fire extinguishers etc. for use by personnel carried in the cabin;
- e. Extended Diversion Time Operations (EDTO)
- f. Mis-declared / undeclared or hidden dangerous goods
- g. Unrestricted access to all cargo shipments
- h. Cargo leakage / spillage
- i. Unsecured / incorrectly loaded cargo
- j. Incorrect loading and unloading sequence
- k. Operational weight and balance limits exceedance
- l. Qualification of ground staff to prepare and load cargo in accordance with applicable regulations and instructions
- m. Occupational Health and Safety (OHS) risks associated with the new procedures.
- 2.2 Checks shall be made before take-off, before landing and whenever requested by the captain to ensure that cargo is properly stowed and secured.
- 2.3 Operators shall establish procedures to manage emergencies in the cabin.



- 2.4 Existing procedures, including emergency procedures, must be reviewed and adapted as necessary.
- 2.5 Operators shall publish temporary revisions to the Operations Manual (OM) to include the new type of operations and the related procedures.

3. Crew Composition

- 3.1 Operations without passengers shall still the presence of crew members to survey and access all areas of the cabin during all phases of flight. Any fire that might occur must be timely detected and effectively fought utilizing the available existing emergency equipment.
- 3.2 Crew members in the cabin have to sit on seats which are not located near the cargo.
- 4. Loading, Mitigations for Transport of Cargo in the Passenger Compartment including on Passenger Seats
 - 4.1 Exact cargo weight and position in the cabin and in the cargo hold shall be reflected in the mass and balance documentation (load sheet).
 - 4.2 The pilot-in-command shall be provided with information on the content of all the cargo such as through provision of the cargo manifest or other appropriate documentation.
 - 4.3 The operator shall load the aircraft considering the different levels of available fire protections of the loading areas. (i.e. passenger cabin and lower deck cargo compartments).
 - 4.4 Cargo must be adequately restrained to ensure the cargo does not come loose or shift during flight or emergency landing conditions
 - 4.5 For the bulkheads that have a placard indicating maximum capacity, the cargo items stowed in aft of these bulkheads shall not exceed the maximum capacity indicated in the placard.
 - 4.6 The maximum capacity limitations in the required safety placards (on or adjacent to the cargo approved stowage locations) shall not be exceeded. All stowage instructions specified in the placards apply.
 - 4.7 The mass of the cargo shall not exceed the structural loading limits of the floor or seats, as published in the aircraft documentation (e.g. Limitation chapter of the Weight and Balance Manual).
 - 4.8 The cargo placed in enclosed stowage areas shall not be of such size that they prevent latched doors from being closed securely.
 - 4.9 The cargo items shall be stowed only in a location that is capable of restraining it.
 - 4.10 The cargo stowage location shall be such that, in the event of an emergency evacuation, it will not hinder aisle access and egress.
 - 4.11 The cargo shall not be placed where it can impede access to emergency equipment.
 - 4.12 The cargo shall not be placed where it can impede the visual to the safety instruction sign and placard, emergency equipment, exit.



- 4.13 The cargo shall be checked to ensure proper stowage in the following instances (at the minimum):
 - a. Before take-off,
 - b. Before landing,
 - c. Under orders of the Pilot in Command (PIC).
- 4.14 The aisles shall remain free of cargo to enable access to the seats and the goods in case of smoke or fire.
- 4.15 Any smoke/ fire within the cabin must be easily detected and effectively fought using the existing emergency equipment. Thoroughly briefed crew members (not part of the flight crew) shall be onboard to survey and access all areas of the cabin during all flight phases. There must be an adequate number of trained crew members acting as fire-fighter (not part of the flight crew) with sufficient amount of firefighting equipment. This equipment may be stowed in the cabin using existing stowage provisions (overhead bins, stowage's) provided that the location is identifiable for the crew. Specific details must be coordinated with the CAAT.
- 4.16 Crew members in the cabin should use existing cabin crew seats and must not share seat rows with cargo. There must be a clear separation of areas occupied by occupants and those fitted with cargo during taxi, take-off and landing. At least one empty seat row between cargo and reserved occupant seats must be established.
- 4.17 'Under seat stowage' is allowed only if the seat is equipped with a restraint bar system and the cargo items can be placed fully underneath the seat. The loading of the cargo under each seat should not exceed 9 kg (20 lbs.).
- 4.18 The cargo packaging shall be able to equalize the pressure so that it can handle the Delta Pressure (DP) during the flight, as applicable.
- 4.19 All smoke and fire detectors shall be maintained as per Maintenance Manual instructions.
- 4.20 The Air Conditioning system shall be set taking into account the nature of the cargo transported in the cabin and the number and distribution of cabin occupants.
- 4.21 If nets are used to restrain cargo items, these nets should be European Technical Standard Order (ETSO) approved and any load limitations of these nets including their attachment means should be adhered to. Any deformation of these nets due to the mass of the cargo items restrained under emergency landing, flight or ground loads should be evaluated for contact to other objects in the cabin and be shown not to block emergency evacuation paths nor access to emergency equipment.



5. Airworthiness Aspects for Transport of Cargo in the Passenger Compartment

- 5.1 Operators may transport cargo in the passenger compartment without design change approval as long as the cargo is placed in the approved stowage locations within the passenger compartment as follows:
 - a. Overhead stowage bins
 - b. Stowage compartments
 - c. Floor mounted stowage (e.g. doghouses)
 - d. Bulkheads that have a placard indicating maximum capacity
 - e. Under seat stowage areas

For permanent use, a design change approval is required as detailed in 5.3.

- 5.2 The temporary transportation cargo in the passenger compartment including on passenger seats shall only be approved when the operator can demonstrate that the conditions described in 4. and the technical guidance which can be found in Annex 1 of this guideline document can be fulfilled. A design change approval is not a prerequisite for the issuance of an Exemption. However, certain design data may support the process.
- 5.3 Transport of cargo in the passenger cabin under a design change approval

In order to allow transport of cargo on a permanent basis beyond the 8 months limitation a design change approval is required. Except for what allowed by paragraph 5.3.1 below, for transport of cargo restrained on seats as well as in case removal of seats are necessary to allow fixation of cargo onto the aircraft structure, a Major Change or STC application is required.

The type of cargo to be transported in the passenger cabin would need to be under control (no unidentified cargo) and assessed beforehand in the frame of the Supplemental Type Certificate (STC) assessment process.

- 5.3.1 Transport of medical supplies restrained on passenger seats
 - a. In the context of the emergency situation created by the Covid-19 pandemic, Approved Design Organizations may reclassify such modification as "Minor Change" and approve such modifications, under their Design Organization Approval (DOA) privileges, allowing the transportation of medical supplies (e.g. masks, gloves, clothing, etc.) restrained on passenger seats, provided that the transported medical supplies are not classified as dangerous goods. This has to be indicated in the approval documents and Aircraft Flight Manual (AFM) Supplement.
 - b. For a design change, including a "re-classified" change, in case professional Cabin Crew is specified and is required to perform any function in the frame of the cargo operation, this has an impact on Cabin Crew Operational Suitability Data (CCD) and will require CCD-related change approvals

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- c. The applicability of these design changes is to be restricted to non-exported airplanes. The DOA shall introduce this limitation in the design change approval sheet.
- d. Since this kind of installation is a change in the scope of operation of the aeroplane, and in the absence of dedicated operational requirements covering this kind of operation, the installation and the procedures for operation have to be addressed taking into account the specific configuration of each aeroplane model affected.

6. No Exemption for Transport of Dangerous Goods

- 6.1 Dangerous goods shall not be carried in the passenger cabin and always be carried in the hold and shall be transported under the conditions established by the Technical Instructions.
- 6.2 Operators need to be cautious of potential hidden dangerous goods that medical supplies and similar cargo shipments may contain.

It is recommended that 'Transport of Cargo in the Passenger Compartment' guidelines by EASA for the required process, including but not limited to the content of the safety risk assessment, crew composition and procedures, and other aspects should be referred to.

Documents published by the industry (aircraft Original Equipment Manufacturers (OEM), SAE) to provide guidance on how to transport cargo in the passenger cabin are referenced in Annex 2.



Annex 1

1. Further Guidance for Transport of Cargo in the Passenger Cabin

The following guidance addresses in general the transport of cargo on seats, on the cabin floor with seats installed or with seats removed.

Primary objectives to be achieved for the unusual use of the passenger cabin for transport of different kind of cargo are provisions and mitigations for:

- Fire risks and enabling adequate firefighting means;
- Fixation of cargo and related changes of aircraft center of gravity, accounting for the structural strength and integrity in normal and emergency conditions;
- Emergency evacuation of occupants.

An applicability list of the below listed areas - depending on the kind of cargo - is provided in Table 1.

1.1 Restrictions to the Kind of Cargo:

- a. No Dangerous goods.
- b. In addition, the operator shall have a process to prevent excepted quantities of lithium batteries contained in, or packed with, equipment from being stowed in the cabin.

1.2 Cabin Preparation:

- a. Passenger convenience systems (IFE, in-seat power, galley systems and any other heat generating systems) in the cabin areas in which cargo is transported will have to be disabled or deactivated.
- b. Automatic supplemental oxygen systems in the cabin areas in which cargo is transported will have to be removed from the PSU channels, without leaving any opening, or shall be deactivated.
 Note: Chemical O2 generator or decentralized gaseous O2 installed in the PSU channel will start the O2 generation or O2 release when certain temperatures are reached. Based on the possible fire scenario originating from the cargo loaded the O2 systems would need to be removed or deactivated (O2 mask drop prevented to keep the shielding from the container doors).
- c. Cargo shall not be stowed in any compartment containing oxygen bottles and/or PBEs, as well as devices containing lithium batteries.



1.3 Cargo Loading:

- a. It is not required to install a 9g barrier and a smoke barrier to protect the flight deck and cabin occupants.
 Cargo shall be restrained so that each cargo installation meets airworthiness standard EASA CS 25.561
 or FAA 14 CFR Part 25.561 and other applicable structural requirements.
- b. In each section of the cabin where cargo is transported:
 - there shall be at least one longitudinal aisle meeting the minimum width dimensions specified in airworthiness standard EASA CS 25.815 or FAA 14 CFR Part 25.815 for aeroplanes with a seating capacity of 10 or less passengers.
 - Cargo shall be loaded so that there is sufficient access to the cargo to allow effective fire-fighting.
 - For twin-aisle aeroplanes in which seats are not removed and are used to restrain cargo, there shall be an unloaded seat row to allow crossing from one aisle to the other. To the extent possible the unloaded seat row shall be located at equal distance from the available cross-aisles required by airworthiness standard EASA CS 25.813 or FAA 14 CFR Part 25.813.
- c. Floor path marking may be removed or obscured by cargo in areas that are not going to be used as evacuation paths by the cabin occupants.
- d. Features that allow decompression shall be maintained, i.e. pallets or cargo shall not obstruct decompression vents or flow.
- e. When cargo is loaded on the floor:
 - The height of the cargo shall not exceed 127 cm (50 inches) (approximately the height of a typical economy class seat).
 - The volume of each cargo loading area, whether on a pallet or directly tied to the floor shall not exceed 3.54m³ (125 ft³).
 - A lateral access should be provided fore and aft of each cargo loading area as noted below. To allow for appropriate access to the cargo and for firefighting the following should be provided:
 - A longitudinal aisle(s) width of at least 51 cm (20"). Each longitudinal aisle must enable a crewmember to traverse it while walking upright
 - A lateral access fore and after of each loading area of at least 38 cm (15") wide
 - Access provisions shall be unobstructed including from the cargo restraint means
 - In addition, Limitations applicable to the mass, distribution and method of restraint of the cargo shall be established based on guidance from the aircraft OEM.
- f. Cargo loaded on a seat shall not exceed 22.5kg (50 lbs) per seat place and shall not extend above the seatback height. Potential restraint methods might include:
 - Seat tracks (after removing the plastic row-to-row track cover), based on guidance from the aircraft OEM.

 Attach netting over the seat and boxes. Secure the net to the seat track. Ensure that the net is moderately taut so as to maintain an aisle width for in-flight surveillance of smoke and fire.



Seat belts or seat belt shackles.

Add additional strapping attached to or going around the forward and top side of the boxes. This strapping to be attached to the buckled and cinched down seat belt (seat belt does not go around box since it doesn't adequately restrain the box in forward and up directions).

Seat beams (located immediately below the seat bottom cushion)
 Strap the forward and top side of the boxes to the forward and aft beams by routing the straps under the seat.

■ Seat legs

Strap the forward and top side of the boxes to the front legs and to the aft legs by looping the straps around the legs.



1.4 Safety Equipment

- a. Portable oxygen equipment must be provided for each crew member whose duties on board include fire detection and fire-fighting in the cabin. The equipment shall meet airworthiness standard EASA CS 25.1439 (b) (1), (2) and (4) and 25.1443 (e) or FAA 14 CFR Part 25.1439 (b) (1), (2) and (4) and 25.1443 (e), and shall be carried by the crew members during their inspections.
- b. Appropriate protective garments (e.g. fire gloves, etc.) shall be stored adjacent to the crew member's stations.
- c. In addition to the extinguishers already installed in the cabin, the need for additional firefighting capabilities should be evaluated by considering the cargo to be transported (e.g. expected class of fire).
 - The following additional fire extinguishers would provide adequate firefighting capabilities in case of no cargo restrictions other than no dangerous goods on the passenger deck:
 - Two Underwriters Laboratories (UL)2A (2-1/2 gallon) rated water portable fire extinguishers, or an equivalent amount of water, and
 - At least two fire extinguishers with a minimum UL 4A-80B:C rating or equivalent. Four UL 2A-10B:C extinguishers is considered equivalent.
- d. Extinguishers should be located next to firefighters station(s) or at other locations that the operator determines would be more effective in providing fire protection.

1.5 Environmental Control System (ECS) Settings

Normal Procedures

ECS settings shall be adapted considering the number aircraft occupants. If the ECS system is configured with Gasper outlets they should be in close / off position at all phases of flight.

Emergency Procedures

In the event of a fire in the cabin it should be ensured that the ventilation system is set to low flow. The existing Smoke, Fire, Fumes FCOM procedures (which includes possible divert, don oxygen masks, establish crew communications, re-circulation fans switched off, Smoke Fumes Checklist) must be followed.



1.6 Procedures and documentation:

Existing procedures, including emergency procedures, must be reviewed and adapted as necessary.

The Airplane Flight Manual (AFM) shall be revised as required to include the following:

- a. Minimum number of additional crew members in the cabin:
 - 1. Minimum of two additional crew members whose duties are to detect and fight a fire, and relay information to the flight crew.
 - 2. For twin aisle and other large long range airplanes, a minimum of 3 additional crewmembers will likely be needed. Additional crewmembers above 3 should be justified based on a risk assessment. The number of cabin occupants should be minimized to the number necessary to satisfy item 1.
- b. The additional crew members must be trained on:
 - 1. Fire-fighting procedure
 - 2. Use of the emergency equipment, including portable oxygen systems
 - 3. Operation of emergency exits and evacuation procedures
- c. The additional crew members must make a visual inspection of the cargo on a regular basis including prior to Taxi, Take-off and Landing (TT&L).
- d. When making the inspection required above, the additional crew members must carry portable oxygen equipment (see section Safety Equipment).
- e. Provisions must be available to allow the flight crew members to notify the crew members in the cabin in case of a decompression.
- f. Seats that must be occupied during TT&L and emergency scenarios such a turbulence or decompression (possibly ensuring visibility of cargo).
- g. A new cabin fire emergency procedure based on manual fire-fighting.

2. Return to Passenger Service

Before the aircraft is used for passenger service, the operator shall ensure the return of the cabin back to the configuration certified for passenger transportation. Operators are reminded that if the operator wishes to make these changes permanent, then a design change approval is required.



Applicability of sections in Annex 1 depending on the restrictions to the kind of cargo			
	No Dangerous goods In addition, the operator must have a process to prevent excepted quantities of lithium batteries contained in, or packed with, equipment from being stowed in the cabin.	Restrictions to the kind of cargo positive list of kind of cargo	Restrictions to the kind of cargo Medical supplies only
Cabin preparation	*	(except that deactivation/removal of supplemental oxygen systems may not be required, depending on the type of cargo)	N/A
Cargo loading	*	4	*
Safety equipment	*	(with adaptations, as appropriate, depending on the type of cargo transported in the cabin)	(with adaptations, as appropriate)
ECS settings	*	(with adaptations, as appropriate)	*
Procedures and documentation	*	(with adaptations, as appropriate)	(with adaptations, as appropriate)
Appendix to Annex 1	*	*	4

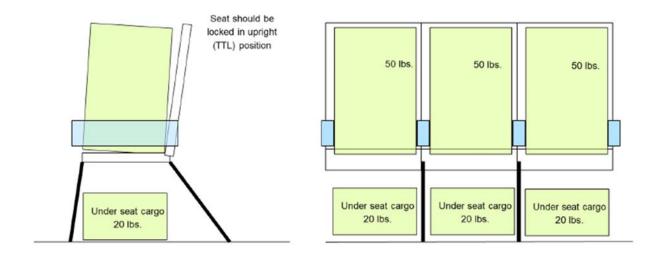
Table 1 - Applicability of sections in Annex 1 depending on the restrictions to the kind of cargo.



Appendix to Annex 1

Example for loading cargo on seats

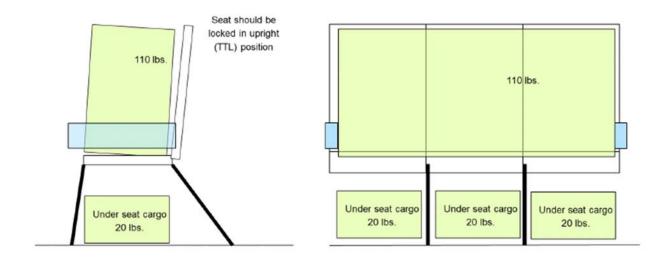
Interim cargo carriage on seat for 3 boxes maximum 22.5kg (50 lbs) Maximum height of cargo not higher than top of seat backrest.



Interim cargo carriage on seat for 1 box maximum 50kg (110 lbs)

Maximum height of cargo not higher than top of seat backrest.

Cargo restraint means are not shown.





Appendix 2 to Annex 1

Recommended Procedures for Loading and Unloading Cargo

The below recommended procedure is an example. The recommended loading / unloading sequence depends on the aircraft type.

Sequence for loading:

- First, load the lower forward cargo compartment
- Next, load the main deck from the front to the back
- Last, load the lower center/aft cargo compartments (lower cargo compartment aft of the wing)

Sequence for unloading:

Reverse order from loading sequence



Annex 2 - Industry Guidance

The following documents were sent by certain aircraft Original Equipment Manufacturers (OEM) to provide guidance on how to transport cargo in the passenger cabin:

Airbus SAS : FOT-999-0028-20-00

■ ATR: OIM2020/003

■ The Boeing Company: MOM-MOM-20-0239

Guidance on how to restrain cargo on seats can be found in SAE ARP 4049 Cargo Restraint on Aircraft Passenger Seats – Main Passenger Cabin.