APPENDIX 13- Operational and Airworthiness considerations for the transportation of cargo in the passenger cabin (TCPC)

Alleviation	Operational and Airworthiness considerations for the transportation of
Title	cargo in the passenger cabin (TCPC)
Version	1.0
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Date	
Relevant	Provisions related to the carriage of cargo are contained in multiple Annexes
Standard(s	and include, among others, the following points:
)	
	Nepalese Civil Airworthiness Requirements (NCAR)
	Crashworthiness and cabin safety
	Emergency equipment
	Modification requirements
	Flight Operations Requirements (FOR)
	Loading and Stowage
	 Flight preparation
	 Operations Manual
	 Crew training
	Dangerous Good Handling Requirements (DGHR)
	Requirements for transport of dangerous goods
	Civil Aviation Requirement 19 (CAR 19)
	\Box Risk assessment and Operator SMS
Droblom	A number of operators are transporting cargo in the passanger aship
Statement	(TCPC) The passenger cabin is not certified as a cargo compartment and
Statement	(TCFC). The passenger cabin is not certified as a cargo compartment and, therefore it does not meet the applicable requirements for the
	transportation of cargo Additional operational and airworthiness
	considerations need to be addressed when operating these flights
Applicability	Applies for operators with an approval to carry cargo listed on their AOC
represents	reprises for operators with an approval to early eargo instea on their rece.
	Alleviation limited to the need to transport critical products such as medical
	supplies1, PPE as well as other cargo which is vital for the functioning of
	sensitive supply chains affected by the Covid-19 pandemic.
	Applies to TCPC without the removal of passenger seats.
	Cargo classified as dangerous goods and mail containing
	dangerous goods is not permitted in the passenger cabin.
	> The alleviation covers operations with only cargo carried in
	the passenger cabin, and not the combined carriage of cargo
	and passengers in the cabin for which additional risk
	assessments and operational measures are required.
	> Operations manual to be amended to take into consideration

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	the specific type of operation.
	1 Some medical supplies may be classified as dangerous goods. These must
	not be carried in the passenger cabin
	2. Removal of seats requires a detailed process which will include a review of
	operational and airworthiness considerations, and is considered beyond the
	scope of this guidance.
Alleviation	This alleviation allows for operations with TCPC, either in approved stowage
summary	locations and/or on the seats, utilizing cabin crew or other trained personnel and
	portable firefighting equipment to detect, suppress and extinguish fire and
	protect the aircraft and occupants.
Operational	An aircraft carrying cargo in the passenger cabin is effectively operating with a
context	cargo compartment that has no or limited built-in smoke detection, fire
	suppression systems and fire containment features.
	• Certification of the aircraft requires that the aircraft is fitted with cargo
	protect the diversion in the event of a cargo fire. With cargo carried in the
	protect the diversion in the event of a cargo file. With cargo carried in the
	personnel instead
	• Review of Type Certificate Holder material will need to be conducted to
	verify the following:
	o Assessment of the location and quantity of fire firefighting equipment
	available in the cabin. Based on this assessment, it will need to be determined if
	the trained personnel carried for the purposes of fire watch have sufficient
	resources to extinguish any fire.
	o Required emergency exit signage and pathway markings remain visible
	following loading of cargo.
	o Loading restrictions
	o Restraint capabilities - Strap of cargo net/panel assemblies, compliant with $TSO_{c} = 172$ (straps) or $TSO_{c} = 000$ (source not (pallet) of adagusta strapsth to
	restrain the cargo taking into account the flight and emergency landing (crash)
	loads
	o Mass and balance considerations
	o Procedures for loading and unloading (E.g. tip hazard)
	• Exact cargo weight and position in the cabin and the cargo hold must be
	reflected in the mass and balance documentation (load sheet).
	• Review of Rescue and Fire Fighting Services (RFFS) capability of aerodromes
	in the operational flight plan may need to be conducted e.g. if the aerodrome
	selection was initially based on RFFS criteria for passenger-carrying aircraft.
	• A risk assessment must be performed to identify hazards, evaluate and
	mitigate correlated risks related to the transport of cargo in the passenger cabin
	using cabin configurations which have originally been approved for transporting
	only passengers. The risk assessment should consider, as a minimum, the following points:
	o canabilities of the operator:
	o Type of cargo and hazards associated with the properties of the items to be
	1 or type of cargo and nazards associated with the properties of the items to be

	carried in the cabin;
	o packing and packaging;
	o Cargo loading, unloading and restraint
	o Adequate clearance shall be maintained between the cargo and any vents used
	by the aeroplane decompression system.
	o Mass and balance calculation and load sheet production
	o Fire worthiness (E.g. Type and quantity of additional fire extinguishers
	necessary on the main deck, Fire Detection, Fire Protection, Fire Suppression,
	and Smoke Penetration)
	o Environmental control system settings need to be revisited to minimize the
	harmful effects of smoke and extinguishing agent in the flight deck and cabin
	and to maximize the ability of a crewmember to detect a fire.
	o Cabin preparation and coordination between flight crew, cabin crew, and other
	relevant trained personnel
	o Crew composition (E.g. minimum number of crew members and trained
	personnel needed to effectively perform the allocated functions)
	o Additional training of crew and personnel who will perform duties on an
	operation authorized by this alleviation.
	o Impact of cabin crew and other trained personnel PPE (expand) on the
	performance of duties.
	o Review of procedures for the TCPC
	o Access to emergency exits
Possible	
Mitigations	Availability of trained personnel to survey and access all areas of the cabin
and Solutions	during all flight phases