



U.S. Department
of Transportation

**Federal Aviation
Administration**

August 06, 2020

Boeing Technical Services Ltd.
First Floor, Building 1, Albany Place,
Welwyn Garden City, Hertfordshire,
United Kingdom, AL73BG

Dear Boeing Technical Services Ltd:

The Aircraft Evaluation Group (AEG) has reviewed your request for Supplemental Type Certificate (STC) relief that may be included in an operator's FAA approved MEL. The AEG finds your relief submission allowable as documented in the relief section of this letter. This relief is valid when an operator installs the listed STC on an aircraft that is listed in the Aircraft Model List (AML) below. No other application of this relief is allowed. The STC holder must contact the AEG when the STC is amended, revised or revoked.

Operators may use this relief letter to incorporate the relief listed below into their Minimum Equipment List (MEL) upon publication of this letter and in accordance with the MEL approval process in FAA Order 8900.1. The relief granted remains valid indefinitely with possession of this letter unless the relief is specifically revoked or revised by the Administrator.

STC Applicant	Boeing Technical Services Ltd
STC Number	ST04453NY
STC Description	Installation of United Airlines Cabin Reconfiguration – Business Class, Premium Economy and Economy Class seating on the Boeing 787-8 aircraft. This includes removal of the originally installed BE Diamond Lie-flat seats, and the installation of new Safran / Polaris Lie-flat seats, along with new Collins MiQ Premium Economy seats, and the re-pitch of the Collins Pinnacle Economy Plus and Economy seats. This seat installation is essentially the same as the OEM UAL 787-10.
Aircraft Model List	B787-9

Sincerely,

Chad Shackford
FOEB Chair,
Aircraft Evaluation Group

Approved STC Relief

System	Item	Category	Installed	Required	Remarks-Exceptions
25	Flootation Equipment	D	-	-	Any in excess of those required by 14 CFR may be inoperative or missing provided required distribution is maintained.
25	Passenger Seats (Includes all Configurations and Locations)	D	-	-	<p>May be inoperative provided:</p> <p>a) Seat does not restrict access to any emergency exit, egress route, or main aisle, and</p> <p>b) Affected seat(s) is blocked and placarded "DO NOT OCCUPY".</p> <p>NOTE 1: A seat with an inoperative seat belt or shoulder harness is considered inoperative.</p> <p>NOTE 2: Affected seat(s) may include the seat(s) behind and/or adjacent outboard seats.</p> <p>NOTE 3: Inoperative seats do not affect the required number of flight attendants.</p>
25	Passenger Seats - Positioning Controls for Taxi, Takeoff, and Landing (TTL) (Mechanical and/or Electrical)	D	-	-	(M) May be inoperative and seat occupied provided seat is secured in the taxi, takeoff, and landing (TTL) position.
25	Passenger Seats - Positioning Controls for Taxi, Takeoff, and Landing (TTL) (Mechanical and/or Electrical)	D	-	-	May be inoperative and seat occupied provided seat is immovable in the taxi, takeoff, and landing (TTL) position.
25	Under Seat Baggage Restraining System	C	-	-	<p>(O) May be inoperative provided:</p> <p>a) Baggage is not stowed under seat with inoperative restraining system,</p> <p>b) Associated seat is placarded "DO NOT STOW BAGGAGE UNDER THIS SEAT", and</p> <p>c) Procedures are established to alert cabin crew of inoperative restraining system.</p>

25	Passenger Seats - Armrests With Seat Positioning Controls for Taxi, Takeoff, and Landing (TTL) and/or Other Controls	D	-	-	(M) May be inoperative or missing and seat occupied provided: a) Armrest does not restrict access to any emergency exit, egress route, or main aisle, and b) If Armrest with seat control is missing or removed, seat is secured in taxi, takeoff, and landing (TTL) position.
25	Passenger Seats - Armrests - Without Seat Positioning Controls for Taxi, Takeoff, and Landing (TTL) and/or Other Controls	D	-	-	May be inoperative or missing and seat occupied provided it does not restrict access to any emergency exit, egress route, or main aisle.
25	FASTEN SEAT BELT WHILE SEATED - Signs or Placards	C	-	-	One or more signs or placards may be illegible or missing provided a legible sign or placard is visible from each occupied passenger seat.
33	Passenger Information Signs	C	-	-	(O) May be inoperative provided: a) PA system operates normally and can be clearly heard throughout the cabin during flight, and b) PA system is used to alert passengers when associated passenger lighted information sign is inoperative.

33	Passenger Information Signs	C	-	-	(M) May be inoperative provided: a) Passenger seats from which a passenger lighted information sign is not readily legible are blocked and placarded "DO NOT OCCUPY", and b) Lavatory with passenger lighted information sign not readily legible has entrance door locked closed and placarded "INOPERATIVE – DO NOT ENTER". NOTE: These conditions are not intended to prohibit lavatory use or inspections by crewmembers.
33	Floor Proximity Lighting Systems - Seat-Mounted Proximity Lights	C	-	-	May be inoperative provided: a) Inoperative seat-mounted lights are not adjacent to each other, and b) Seat-mounted lights adjacent to each passenger entry door operate normally.
35	Passenger Oxygen System	B	1	0	(O) May be inoperative provided: a) Appropriate portable oxygen supplies are available, b) Both air conditioning packs operate normally, c) Pressurization system operates normally, d) Appropriate altitude adjustments are applied, and e) Passengers are appropriately briefed.
35	Passenger Oxygen System - Power Channels	C	18	9	One for each PSU zone may be inoperative.

35	Passenger Oxygen Controllers	B	-	0	(M) May be inoperative provided: a) Associated passenger seats are blocked and placarded to prevent occupancy, b) Associated flight attendant seat is considered inoperative, c) Associated lavatory door is locked closed and placarded "INOPERATIVE – DO NOT ENTER", and d) Associated galley area curtain nearest operative oxygen controllers is secured open or removed. NOTE: These provisions are not intended to prohibit lavatory inspections by crewmembers.
----	------------------------------	---	---	---	---

35	Passenger Oxygen Controllers	B	-	0	(O) May be inoperative provided: a) Appropriate portable oxygen supplies are available, b) Both air conditioning packs operate normally, c) Pressurization system operates normally, d) Appropriate altitude adjustments are applied, and e) Passengers are appropriately briefed.
----	------------------------------	---	---	---	---

35	Portable Oxygen Dispensing Units (Bottle and Mask)	D	-	-	(M) Any in excess of those required by 14 CFR may be inoperative or missing provided: a) Required distribution of bottles is maintained, and b) Bottles not properly serviced are replaced, serviced, or removed at the next available maintenance facility.
----	--	---	---	---	--

44	Cabin Speakers	C	-	-	May be inoperative provided no adjacent cabin speaker pairs (forward to aft) are inoperative.
----	----------------	---	---	---	---