



U.S. Department
of Transportation

**Federal Aviation
Administration**

January 22, 2021

Lufthansa Technik AG

Dear Lufthansa Technik AG:

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	Lufthansa Technik AG
STC Number	ST03097NY
STC Description	ADS-B Out is a function of the ATC Transponder. The function utilizes data packages that are continuously transmitted by the aircraft Mode-S transponder and are received by remote ATC ground stations. ATC ground stations process transmitted data to generate an ATC display that emulates a traditional radar display. This display is used by ATC to provide surveillance services in a non-radar environment allowing for increased airspace capacity and more efficient routing for operators. The MD11 complies with airworthiness requirements for ADS-B Out in Non Radar Areas contained in EASA AMC 20-24. Whenever the Mode S transponder is on, ADS-B Out information is being transmitted. The ADS-B Out information transmitted by the transponder is totally independent from any data link information transmitted as a result of FANS/CPDLC operations.
Aircraft Model List	MD-11

Sincerely,

Dusan Vukotic
FOEB Chair,
Aircraft Evaluation Group

Approved STC Relief

System	Item	Category	Installed	Required	Remarks-Exceptions
34	Automatic Dependent Surveillance-Broadcast (ADS-B) System	C	-	0	(O) May be inoperative provided: a) Alternate procedures are established and used, and b) It is not required by 14 CFR. NOTE: Any ADS-B function that operates normally may be used.
		D	-	0	May be inoperative provided: a) Enroute operations do not require its use, and b) It is not required by 14 CFR. NOTE: Any ADS-B function that operates normally may be used.
		C	-	1	One must be operative as required by 14 CFR. NOTE: Any ADS-B function that operates normally may be used.
34	ADS-B Out Extended Squitter Transmissions	C	-	0	(O) May be inoperative provided: a) Alternate procedures are established and used, b) Authorization is obtained from ATC facilities having jurisdiction over planned route of flight, and c) It is not required by 14 CFR. NOTE: Any ADS-B function that operates normally may be used.
		C	-	1	One must be operative as required by 14 CFR. NOTE: Any ADS-B function that operates normally may be used.

34	ADS-B Out UAT Transmissions	C	-	0	<p>(O) May be inoperative provided:</p> <p>a) Enroute operations do not require its use,</p> <p>b) Authorization is obtained from ATC facilities having jurisdiction over planned route of flight, and</p> <p>c) It is not required by 14 CFR.</p> <p>NOTE: Any ADS-B Out function that operates normally may be used.</p>
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		C	-	1	<p>One must be operative as required by 14 CFR.</p> <p>NOTE: Any ADS-B function that operates normally may be used.</p>
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34	ADS-B In Transmissions	C	-	0	<p>(O) May be inoperative provided alternate procedures are established and used .</p> <p>NOTE: Any ADS-B In function that operates normally may be used.</p>
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		D	-	0	<p>May be inoperative provided operations do not require its use.</p> <p>NOTE: Any ADS-B function that operates normally may be used.</p>
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