

United States of America
Department of Transportation -- Federal Aviation Administration
Supplemental Type Certificate

Number SR04453CH

This certificate issued to Appareo Systems, LLC
1810 NDSU Research Circle North
Fargo, ND 58102

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 27 of the Federal Aviation Regulations.

Original Product - Type Certificate Number :
Make : See attached FAA Approved Model List (AML) No. SR04453CH
Model : for list of approved airplane models and applicable airworthiness regulations.

Description of Type Design Change:
Installation of Appareo Systems, LLC Stratus ES & Stratus ESG ADS-B transponder in accordance with the Appareo Systems Stratus ES/ESG STC Master Document List on FAA AML No. SR04453CH.

Limitations and Conditions:

1. The installer must determine whether this design change is compatible with previously approved modifications.
2. A copy of this certificate and AML No. SR04453CH must be maintained as part of the permanent records for the modified aircraft.
3. FAA Approved Airplane Flight Manual Supplement identified on FAA AML No. SR04453CH is a required part of this modification.
4. If the holder agrees to permit another person to use this certificate to alter the product, the holder must give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: September 18, 2019

Date reissued:

Date of issuance: March 11, 2020

Date amended:



By direction of the Administrator

Steven L. Lardinois
(Signature)

Steven L. Lardinois
Manager, Systems Section
Chicago ACO Branch

(Title)

THE INSTALLATION OF APPAREO SYSTEMS STRATUS ES & STRATUS ESG ADS-B

Issue Date: March 11, 2020

ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	ORIGINAL TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	INSTALLATION INSTRUCTIONS		AFM SUPPLEMENT NUMBER/DATE	AML AMENDMENT DATE
					MASTER DOCUMENT LIST	REVISION NO. AND DATE		
1	Airbus Helicopters	AS350C, AS350D, AS350D1, AS350B, AS350B1, AS350B2, AS350BA, AS350B3, EC130B4, EC130T2	H9EU	14 CFR Part 27 and Amendments identified in TCDS H9EU as amended by Appendix A	See NOTE 1	See NOTE 1	See NOTE 2	
2	Airbus Helicopters	EC120B	R0001RD	14 CFR Part 27 and Amendments identified in TCDS R0001RD as amended by Appendix A	See NOTE 1	See NOTE 1	See NOTE 2	
3	Bell Helicopter Textron Canada Limited	206, 206A, 206A-1(OH-58A), 206B, 206B-1, 206L, 206L-1, 206L-3, 206L-4, 407	H2SW	CAR 6 and Amendments identified in TCDS H2SW as amended by Appendix A	See NOTE 1	See NOTE 1	See NOTE 2	
4	Leonardo S.p.a.	Model A109, Model A109A, Model A109A II, Model A109C, Model A109K2, Model A109E, Model A119, Model A109S, Model AW119 MKII, Model AW109SP	H7EU	14 CFR Part 27 and Amendments identified in TCDS H7EU as amended by Appendix A	See NOTE 1	See NOTE 1	See NOTE 2	
5	Robinson Helicopter Company	R22, R22 Alpha, R22 Beta, R22 Mariner	H10WE	14 CFR Part 27 and Amendments identified in TCDS H10WE as amended by Appendix A	See NOTE 1	See NOTE 1	See NOTE 2	

FAA APPROVED MODEL LIST (AML) NO. SR04453CH

Appareo Systems LLC.

FOR

THE INSTALLATION OF APPAREO SYSTEMS STRATUS ES & STRATUS ESG ADS-B

Issue Date: March 11, 2020

6	Robinson Helicopter Company	R44, R44 II	H11NM	14 CFR Part 27 and Amendments identified in TCDS H11NM as amended by Appendix A	See NOTE 1	See NOTE 1	See NOTE 2	
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NOTE 1: Appareo Systems, LLC Master Document List Document No. 606586-000107, Rev. 1.2, dated February 21, 2020, or later FAA approved revision.

NOTE 2: Appareo Systems, LLC Rotorcraft Flight Manual Supplement Doc. No. 606586-000112, Rev. 1.1, dated March 9, 2020 or later FAA approved revision.

FAA Approved:



Steven L. Lardinois
Manager, Systems Section
Chicago ACO Branch

Appareo Systems LLC.

FOR

THE INSTALLATION OF APPAREO SYSTEMS STRATUS ES & STRATUS ESG ADS-B

Issue Date: March 11, 2020

Appendix A: All Models

Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis is as follows:

- a. As determined by the Type Certificate Data Sheet (TCDS) of the aircraft for parts **not changed or not affected** by this STC.

Regulations at the amendment levels listed in Table 1 below for parts **changed or affected** by the STC since the reference date of STC application, September 18, 2019

Table 1: Certification Basis Including Amendments.

Regulations	Amdt.
§ 27.301 (a)(b)	27-0
§ 27.303	27-0
§ 27.305 (a)	27-0
§ 27.307 (a)	27-26
§ 27.561 (b)(3)	27-32
§ 27.601 (a)	27-0
§ 27.603 (a)(b)(c)	27-16
§ 27.605 (a)	27-16
§ 27.609 (a)	27-0
§ 27.613 (a)(b)(c)(d)	27-26
§ 27.619 (a)(b)	27-0
§ 27.625 (a)	27-35
§ 27.771 (a)(b)	27-0
§ 27.773 (a)(b)	27-50
§ 27.777 (a)(b)	27-0
§ 27.853 (a)	27-37
§ 27.1301 (a)(b)(c)(d)	27-0
§ 27.1307 (d)(e)	27-0
§ 27.1309 (a)(c)	27-46
§ 27.1316	27-46
§ 27.1317 (c)	27-42
§ 27.1351 (a)(b)	27-13
§ 27.1357 (a)(b)(c)	27-13
§ 27.1365 (a)(b)(c)	27-35
§ 27.1367 (b)(c)	27-0
§ 27.1381 (a)(b)	27-0
§ 27.1501 (a)(b)	27-14
§ 27.1529	27-18
§ 27.1555 (a)	27-21