

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

Number ST03247CH

This certificate issued to
Armstrong Aerospace
1437 Harmony Court
Itasca, IL 60143

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 25 of the Federal Aviation Regulations. (See Page 3 of 4 for complete certification basis.)

Original Product -- Type Certificate Number: A28NM
Make: Airbus
Model: A318 Series, A319 Series; A320 Series; A321 Series

Description of Type Design Change:

Certification of Compatibility with Cellular and Wireless Data Technologies in accordance with Armstrong Aerospace Master Data List, Doc. No. DC104-9214-00, Revision D, dated September 13, 2016 or later FAA approved revision.

Limitations and Conditions:

- 1) The installer must determine whether this design change is compatible with previously approved modifications.

Limitations and Conditions Continued on Page 3 of 4

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: March 7, 2013

Date reissued:

Date of issuance: August 20, 2013

Date amended: September 26, 2016



By direction of the Administrator

(Signature)

Brenda L. Litchfield
ODA Administrator
Envoy Aerospace, LLC ODA-831240-CE

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

United States of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate
(Continuation Sheet)

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Date of issuance: August 20, 2013

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Certification Basis: (continued)

The certification basis for the changed Airbus A318, A319, A320, A321 Series aircraft as described in this certificate is as follows:

- a. The type certification basis for the Airbus A318, A319, A320, A321 Series aircraft is shown on A28NM for parts not changed or not affected by this change.
- b. The certification basis for the parts changed or affected by this change since the reference date of application, March 7, 2013, is shown on A28NM. In addition, the applicant has complied with 14 CFR Part 25 as amended by Amendment 25-119 and 14 CFR Part 26 amended by Amendment 26-1.

14 CFR Part 25 Regulations at the latest amendment 25-0 through 25-119

25.1309(a); 25.1529.

14 CFR Part 26 Regulations

Based on 14 CFR § 21.101(g), applicable provisions of 14 CFR Part 26 are included in the certification basis. For any future 14 CFR Part 26 amendments, the holder of this STC must demonstrate compliance with the applicable sections. As of the latest amendment date of this STC, compliance has been found for the following regulations: 14 CFR § 26.11(c) [Amdt. No. 26-0]; §26.47(c) [Amdt. No. 26-1]. This modification does not affect or create fatigue critical baseline structure.

Limitations and Conditions: (continued)

- 2) Limitations for installations utilizing both Cellular and Wireless Data Technologies compatibility aspects of this STC, as defined in Group 1 of Armstrong Aerospace Master Data List, Doc. No DC104-9214-00, Revision D, dated September 26, 2016, or later approved revision:
 - (a) This STC may only be applied to an aircraft when an airplane installed base station using cellular technologies is concurrently installed in accordance with a separate FAA approval.
 - (b) This STC does not constitute installation approval of an airplane mobile base station using cellular technologies or a wireless radio frequency system using wireless data technologies. It only provides data that may partially support their installations or activations.
 - (c) The installer must comply with limitations listed in Sections 2 and 3 of Armstrong Aerospace "Aircraft Equipment Compatibility List", Doc. No. DC370-9214-01.
 - (d) The operator is responsible to ensure changes to the aircraft equipment remain compatible in accordance with Sections 3 and 5 of Armstrong Aerospace "Aircraft Equipment Compatibility List", Doc. No. DC370-9214-01.
- 3) Limitations for installations utilizing the Wireless Data Technologies compatibility aspects of this STC only, as defined in Group 2 of Armstrong Aerospace Master Data List, Doc. No DC104-9214-00, Revision D, dated September 26, 2016, or later approved revision:
 - (a) This STC does not constitute installation approval of a wireless radio frequency system using wireless data technologies. It only provides data that may partially support their installations or activations.
 - (b) The installer must comply with limitations listed in Sections 2 and 3 of Armstrong Aerospace "Aircraft Equipment Compatibility List", Doc. No. DC370-9214-02.
 - (c) The operator is responsible to ensure changes to the aircraft equipment remain compatible in accordance with Sections 3 and 5 of Armstrong Aerospace "Aircraft Equipment Compatibility List", Doc. No. DC370-9214-02.

Limitations and Conditions Continued on Page 4 of 4

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United States of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate
(Continuation Sheet)

Number ST03247CH

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Limitations and Conditions: (continued)

- 4) Limitations for installations utilizing the Cellular Technologies compatibility aspects of this STC only, as defined in Group 3 of Armstrong Aerospace Master Data List, Doc. No DC104-9214-00, Revision D, dated September 26, 2016, or later approved revision:
 - (a) This STC may only be applied to an aircraft when an airplane installed base station using the cellular technologies is concurrently installed in accordance with a separate FAA approval.
 - (b) This STC does not constitute installation approval of an airplane mobile base station using cellular technologies. It only provides data that may partially support their installations or activations.
 - (c) The installer must comply with limitations listed in Sections 2 and 3 of Armstrong Aerospace "Aircraft Equipment Compatibility List", Doc. No. DC370-9214-01.
 - (d) The operator is responsible to ensure changes to the aircraft equipment remain compatible in accordance with Sections 3 and 5 of Armstrong Aerospace "Aircraft Equipment Compatibility List", Doc. No. DC370-9214-01.
- 5) If the holder agrees to permit another person to use this certificate to alter a product, the holder must give the other person written evidence of that permission.

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