

United States of America
Department of Transportation -- Federal Aviation Administration

Supplemental Type Certificate

Number ST02776NY

This certificate issued to Quiet Wing Technologies, Inc.
12735 Willows Road NE
Kirkland, WA 98034

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations.

Original Product -- Type Certificate Number: A3WE
Make: Boeing
Model: 727-212
Serial No. 21460

Description of Type Design Change:

- Modification of PATS Aircraft, LLC Auxiliary Fuel Tank System to be in compliance to SFAR 88 requirements for Boeing 727-212 airplane in accordance with Master Drawing List QWT7276401, Rev C dated 02/23/10.
- The aircraft must be maintained in accordance with Aircraft Maintenance Manual Supplement QWT7276413 Rev A, dated 02/17/10. FAA approved Airworthiness Limitations in Section 2 is mandatory.
- Quiet Wing Technologies, Inc. Airplane Flight Manual Supplement QWT7276401-212, Revision NC, FAA approved 03/04/10 is also required for this modification.

Limitations and Conditions:

- These modifications may not be installed after August 30, 2010 unless (1) previously approved electrical wiring interconnection system (EWIS) instructions for continued airworthiness (ICA) have been evaluated and determined to be adequate for these installations by the FAA, or (2) revised EWIS ICA have been approved by the FAA Oversight Office. (Refer § 26.11).

(See Continuation Sheet 2)

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: June 11, 2008

Date reissued:

Date of issuance: March 04, 2010

Date amended:



By direction of the Administrator

Frances Peri

(Signature)

Anthony Socias
Manager *AS*
New York Aircraft Certification Office

(Title)

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

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Date of Issue: March 04, 2010

Limitations and Conditions:

- b. You cannot use the descriptive data about this design change to duplicate other products. This approval is limited to only the installation made in Boeing Model 727-212 Serial No. 21460.
- c. Installation of this Supplemental Type Certificate provides an Alternate Method of Compliance (AMOC) to Airworthiness Directive AD 2008-22-01 for aircraft Serial No. 21460.

Certification Basis:

Based on 14 CFR § 21.115 and § 21.101, and the FAA policy for changes that are not significant in FAA Order 8110.48, the certification basis for these modifications is as follows:

- a. The type certification basis for Boeing Model 727-200 series airplanes is shown in CAR4b TCDS A3WE for parts not changed or affected by the change.
- b. The certification basis for parts changed or affected by the change since the reference date of application, June 11, 2008 is based upon 14 CFR § 25 requirements effective February 1, 1965 with the following exceptions:
 - 25.301(a)(b)(c) Am 25-23
 - 25.303 Am 25-23
 - 25.305(a)(b) Am 25-86
 - 25.307(a)(b)(c) Am 25-72
 - 25.561(a)(b) Am 25-91
 - 25.571(a)(b) Am 25-45
 - 25.581(b) Am 25-23
 - 25.601 Orig.
 - 25.603 Am 25-46
 - 25.605 Am 25-46
 - 25.607 Am 25-23
 - 25.609 Orig.
 - 25.611 Am 25-123
 - 25.613 Am 25-112
 - 25.625 Am 25-72
 - 25.863, Am25-46
 - 25.981 (a)(b) Am 25-102
 - 25.1301(a-d) Orig
 - 25.1305(a)(2) Am 25-38
 - 25.1307(c) Am 25-72
 - 25.1309(a)(b)(c)(d), Am 25-41
 - 25.1316(e)(f) Am 25-80
 - 25.1317 Am 25-122
 - 25.1337(b) Am 25-40
 - 25.1351 (a) Am 25-72
 - 25.1353(a)(b) Am 25.42
 - 25.1357(a-g) Orig
 - 25.1431(a)(b)(c) Orig
 - 25.1519 Orig
 - 25.1529 & Appendix H - Am 25-54
 - 25.1533 Am 25.92
 - 25.1543 Am 25-72
 - 25.1549 Am 25-40
 - 25.1583(a)(b)(c),(h) Am 25-105
 - 25.1585 Am 25-108

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Date of Issuance: March 01, 2010

Certification Basis: (continued)

Special Federal Aviation Regulation 88

Part 26 regulations

Based on 14 CFR § 21.101(g), applicable provisions of part 26 are included in the certification basis. For any future part 26 amendments, the holder of this STC must demonstrate compliance with applicable sections. As of the issuance date of this STC, compliance has been found for the following regulations:

§ 14 CFR 26.11 at amendment 26-0

§ 14 CFR 26.47 at amendment 26-1

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