

United States of America  
Department of Transportation -- Federal Aviation Administration  
**Supplemental Type Certificate**  
*Number* ST02776NY

*This certificate issued to* Quiet Wing Technologies, Inc.  
12324 134<sup>th</sup> Court NE  
Redmond, WA 98052

*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:*

- a. 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.
- b. The aircraft must be maintained in accordance with Aircraft Maintenance Manual Supplement QWT7276421 Rev C, dated 06/29/10. FAA approved Airworthiness Limitations in Section 2 is mandatory.
- c. 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:*

- a. 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.

(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:* November 8, 2011

*Date of issuance:* March 04, 2010

*Date amended:* August 19, 2010



*By direction of the Administrator*

(Signature)

Anthony Gallo  
Acting Manager  
New York Aircraft Certification Office

(Title)

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Date of Reissue: November 8, 2011

*Limitations and Conditions:*

- b. 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

(See Continuation Sheet 3)

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*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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