



United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

Number: ST02947NY

This certificate issued to: PATS Aircraft, LLC
21652 Nanticoke Avenue
Georgetown, DE 19947

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: A2NM
Mcng: The Boeing Company
Mqf gn 757-200

Description of Type Design Change:

1. Configuration 1 Installation of a Four Forward, Four Aft Tank Auxiliary Fuel System on a Boeing 757-200 that is 14 CFR 25.981, amendment 25-125 and 14 CFR 26 compliant, in accordance with PATS Aircraft, LLC Master Drawing List 5936-0001-MDL, revision P dated June 7, 2010 or later FAA approved revision.
2. Configuration 2 Installation of a Two Forward, Four Aft Tank Auxiliary Fuel System with double Wall Metal In Metal Tubing on a Boeing 757-200 that is 14 CFR 25.981, amendment 25-125 and 14 CFR 26 compliant, in accordance with PATS Aircraft, LLC Master Drawing List 6963-0001-MDL, revision IR dated April 30, 2013 or later FAA approved revision.
Continued on sheets 3 through end.

Limitations and Conditions:

1. The Installer must determine whether this design change is compatible with previously approved modifications.
2. 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.

Continued on sheets 3 through end.

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

Date of application: August 16, 2006

Date reissued:

Date of issuance: March 31, 2011

Date amended: May 12, 2015

By direction of the Administrator

Signature _____

Title Nick Olmsted
STC ODA administrator
ODA-955292-NE

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).



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INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Aircraft Certification Office of the transfer of this Supplemental Type Certificate. The FAA will reissue the certificate in the name of the transferee and forward it to him.

Transfer Endorsement

Transfer the ownership of Supplemental Type Certificate Number: ST02947NY

To (Name and address of transferee)

From (Name and address of grantor)

Extent of Authority (if licensing agreement):

Date of transfer:

Signature of grantor: _____

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Effective Date: May 12, 2015

Additional Date(s) Reissued : N/A

Additional Date(s) Amended: August 26, 2013, March 30, 2015

Description of Type Design Change (cont.)

3. Configuration 3. Installation of a Four Forward, Four Aft Tank Auxiliary Fuel System with double Wall Metal In Metal Tubing on a Boeing 757-200 that is 14 CFR 25.981, amendment 25-125 and 14 CFR 26 compliant, in accordance with PATS Aircraft, LLC. Master Drawing List 6963-0001-MDL, revision B, dated May 07, 2015 or later FAA approved revision.

4. Later Approved Configurations. Installation of an Auxiliary Fuel System on a Boeing 757-200 with double Wall Metal In Metal Tubing that is 14 CFR 25.981, amendment 25-125 and 14 CFR 26 compliant, in accordance with PATS Aircraft, LLC Master Drawing List 6963-0001-MDL, revision B, dated May 07, 2015, or later FAA-approved revision, and PATS Aircraft Systems 757-200 Auxiliary Fuel System Configuration Matrix, document 6963-28-LIST-001, revision A, dated May 06, 2015 or later FAA approved revision.

Manuals

1. ICAW Configurations 1, 2, or 3: PATS Aircraft, LLC Instructions for Continued Airworthiness, TM-6963-ICAW, revision A, dated April 15, 2015, or later FAA accepted revision, is required for these configurations.
2. ICAW Later approved configurations: Specific PATS Aircraft, LLC Instructions for Continued Airworthiness (ICAW) associated with each approved configurations are located in PATS Aircraft Systems 757-200 Auxiliary Fuel System Configuration Matrix, document 6963-28-LIST-001. Approved ICAW include
 - a. b. TM-6963-ICAW, Revision A, dated April 15, 2015 or later FAA accepted revision,
3. AFMS Configuration 1: PATS Aircraft, LLC, Airplane Flight Manual Supplement AFMS-ST02947NY-F-44, revision IR, March 23, 2015 is required.
4. AFMS Configuration 2: PATS Aircraft, LLC, Airplane Flight Manual Supplement No. 134 for a Two Cell Forward, Four Cell Aft Auxiliary Fuel System Configuration revision IR, dated August 26, 2013, or AFMS-ST02947NY-F-24, revision IR, March 23, 2015 is required.
5. AFMS Configuration 3: PATS Aircraft, LLC, Airplane Flight Manual Supplement No. AFMS-ST02947NY-F-44-KG, revision IR, May 7, 2015 is required for a Four Cell Forward, Four Cell Aft Auxiliary Fuel System Configuration.
6. AFMS Later Approved Configurations: Specific required PATS Aircraft, LLC, Airplane Flight Manual Supplements associated with approved configurations are listed in PATS Aircraft Systems 757-200 Auxiliary Fuel System Configuration Matrix, document 6963-28-LIST-001. FAA Approved Airplane Flight Manuals Supplements (AFMS) are required per this list:
 - a. AFMS-ST02947NY-F-24, revision IR, March 23, 2015, or later FAA approved revision.
 - b. AFMS-ST02947NY-F-44, Revision IR, dated March 23, 2015, or later FAA approved revision.
 - c. AFMS-ST02947NY-F-44-KG, Revision IR, dated May 07, 2015, or later FAA approved revision.

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).



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Effective Date: May 12, 2015

Limitations and Conditions (cont.)

- 3. Flammability exposure analysis, PATS Aircraft, LLC TO-4386 revision B dated April 26, 2012, required 14 CFR 26.35(b) has been FAA approved.
4. The installation of the Auxiliary Fuel Tank System, installed per this supplemental type certificate, has been evaluated in accordance with AC 120-42A, Paragraph (8). This installation has no adverse effect on the previously approved ETOPS capability of the type-certificated aircraft.
5. Configurations 1,2,3. Comply with FAA approved Airworthiness Limitations Section (ALS) , Section 4, revision B, dated February 15, 2015, which is contained within the PATS Aircraft, LLC Maintenance Planning Data Supplement (MPDS), document number TO-3399, revision B, dated February 15, 2015 or later FAA accepted revision.
6. Later Approved Configurations: Comply with FAA approved Airworthiness Limitations Section (ALS) for associated approved configurations that are listed in PATS Aircraft Systems 757-200 Auxiliary Fuel System Configuration Matrix, document 6963-28-LIST-001. Approved ALS and their associated manuals include:
a. ALS: Section 4, revision B, dated February 15, 2015, which is contained within the Maintenance Planning Data Supplement (MPDS), Number TO-3399, revision B, dated February 15, 2015 or later FAA accepted revision.

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 are as follows:

- 1. The type certification basis to include 14 CFR parts 25 and 26 for the Boeing Model 757-200 series airplanes is shown on FAA type certificate data sheet (TCDS) A2NM revision 31, August 19, 2014, for parts not changed or affected by the change:

25.23, 25.301, 25.303, 25.307, 25.333, 25.337, 25.341, 25.343, 25.365, 25.493, 25.523, 25.561, 25.581, 25.601, 25.607, 25.609, 25.611, 25.619, 25.625, 25.685, 25.721, 25.803, 25.807, 25.809, 25.851, 25.855, 25.857, 25.863, 25.901, 25.903, 25.952, 25.954, 25.957, 25.959, 25.963, 25.965, 25.967, 25.969, 25.971, 25.973, 25.979, 25.999, 25.1011, 25.1301, 25.1309, 25.1322, 25.1337, 25.1357, 25.1363, 25.1381, 25.1411, 25.1415, 25.1439, 25.1501, 25.1519, 25.1529, 25.1581, 25.1583, 26.11, 26.47

- 2. The 14 CFR part 25 certification basis for parts changed or affected by the change since the reference date of application, March 4, 2015 above the amendment levels of TCDS listed in paragraph 1 are noted here (* = latest amendment):

Table with 4 columns: Part Number, Amendment, Part Number, Amendment. Rows include: 25.29 Amendment 25-72*, 25.305 Amendment 25-86*, 25.571 Amendment 25-54, 25.603 Amendment 25-46*, 25.605 Amendment 25-46*, 25.613 Amendment 25-72, 25.615 Amendment 25-72, 25.869 Amendment 25-113, 25.981 Amendment 25-125*, 25.994 Amendment 25-57*, 25.1305 Amendment 25-72, 25.1307 Amendment 25-72*, 25.1316 Amendment 25-80, 25.1351 Amendment 25-72*, 25.1353 Amendment 25-113, 25.1359 Amendment 25-72*, 25.1431 Amendment 25-113*, 25.1585 Amendment 25-105*

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Certification Basis (continued):

3. The 14 CFR part 26 certification basis for parts changed or affected by the change since the reference date of application, March 4, 2015, above the amendment levels of TCDS listed in paragraph 1 are noted here (*= latest amendment):

26.35 Amendment 26-3*

...END...

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