



U.S. Department of  
Transportation Federal  
Aviation  
Administration

**MAJOR REPAIR AND ALTERATION**  
**(Airframe, Powerplant, Propeller, or Appliance)**

OMB No. 2120-0020 Electronic Tracking Number  
Exp: 8/31/2014

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 44701). Failure to report can result in a civil penalty not for each such violation (49 U.S.C. 46301(a))

<b>1. Aircraft</b>	Nationality and Registration Mark	Serial No.	
	N2NP	1905	
<b>2. Owner</b>	Make	Model	Series
	Pilatus	PC-12	47E
<b>2. Owner</b>	Name (As shown on registration certificate)	Address (As shown on registration certificate)	
	PILATUS BUSINESS AIRCRAFT, LTD.	12300 PILATUS WAY BROOMFIELD, CO 80021 USA	


**3. For FAA Use Only**

<b>4. Type</b>		<b>5. Unit Identification</b>			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME		(As described in Item 1 above)	
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		


**6. Conformity Statement**

<b>A. Agency's Name and Address</b>	<b>B. Kind of Agency</b>	
PILATUS BUSINESS AIRCRAFT, LTD. 12300 PILATUS WAY BROOMFIELD, CO 80021 USA	<input type="checkbox"/> U.S. Certified Mechanic	Manufacturer
	<input type="checkbox"/> Foreign Certified Mechanic	C. Certificate No.
	<input checked="" type="checkbox"/> Certificated Repair Station	ZP8R849Y
	<input type="checkbox"/> Certificated Maintenance Organization	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Sergio S. Robles 	Nov 06, 2019
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**7. Approval for Return to Service**

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport	
	FAA Designee	<input checked="" type="checkbox"/> Repair Station	Inspection Authorization	Other (Specify)	
Certificate or Designation No.  ZP8R849Y		Signature/Date of Authorized Individual   Sergio S. Robles Nov 06, 2019			

## NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

### 8. Description of Work Accomplished

(If more space is required, attached additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

**PC-12/47E**

**S/N 1905**

**N42NP**

Nationality and Registration Mark

**11/06/2019**

Date

This aircraft has been modified by the installation of the following:

#### **FAA STC SA04153AT –Pilatus Business Aircraft EMTEQ eConnect In-Flight Entertainment (IFE) System with Cabin USB Charging Ports**

Installed the following system components:

- eConnect IFE Wi-Fi System wiring diagram drawing # 2E-1301-20-0001 Rev. D, E-connect IFE Router Installation P/N CWR451-2000-02 weighing 4.30 lbs. at station 207.19 on forward side of the right cabin storage cabinet in accordance with drawing # 2E-1301-30-0012 Rev. B.
- 5 Amp IFE Router Circuit Breaker P/N 972.55.18.426 on the Copilot Circuit Breaker which are connected to the Cabin Bus in accordance with drawing # 2E-1301-30-0005 Rev A.
- Master Control Switch P/N 973.61.42.103 weighing 0.08 lbs. located at station 167.32 on the Copilot's Master Switch Panel in accordance with drawing # 2E-1301-30-0010 Rev A.
- 3 WIFI Antennas P/N 5W-2.40-2.50-XTB-4 weighing 0.11 lbs. at station 207.19 on forward side of the right cabin storage cabinet in accordance with drawing # 2E-1301-30-0015 Rev C.
- USB Data Port Installation P/N 106401 in accordance with drawing # 2E-1301-30-0009 Rev -.

#### **USB Cabin Charging Ports:**

Installed 3 each USB Cabin Charging Ports P/N 6430102-2 at stations 262.00 on the left cabin sidewall, 251.00 & 315.00 on the right cabin sidewall in accordance electrical drawing 2E-1301-20-0003 Rev. B. The Charging Ports were located and installed in the non-structural cabin sidewalls per drawing 2E-1301-30-0004 Rev. C. The Cabin USB Charging Ports are powered by 5 amp circuit breaker on the Cabin Bus. The Charging Ports are provided for the charging of USB compatible portable devices as a passenger convenience.

Installed in accordance with installation and supporting documents as listed in Pilatus Business Aircraft MDL, Report No. 2-125214-001 Rev E, dated Nov. 07, 2016 or later for installing the Pilatus Business Aircraft EMTEQ eConnect IFE WI-FI System on the PC-12/47E Aircraft.

Installed FAA Approved Flight Manual Supplement, Document # 2-125214-800 Rev I/R dated May 16, 2014 in the Pilots Operating Handbook.

Instructions for Continued Airworthiness (ICA) can be found in Manual No. 2-125214-802 Rev E, dated Aug. 24, 2016 or later which can be found in the aircraft documentation records.

All required functional ground checks have been completed with satisfactory results. No changes are noted in the aircraft compass system. Weight and balance records are revised and equipment list is amended. Further details of this installation are on file at Pilatus Business Aircraft, Ltd. under Work Package 2140.

\*\*\*\*\*NOTHING FOLLOWS\*\*\*\*\*

☒ Additional Sheets Are Attached



U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

Transport Airplane Directorate  
Aircraft Certification Service  
Denver Aircraft Certification Office  
26805 East 68<sup>th</sup> Avenue, Room 214  
Denver, Colorado 80249

November 10, 2016  
FAA Letter No: 17-23-10108

Mr. Daniel Kundert  
Pilatus Business Aircraft  
11755 Airport Way  
Broomfield, Colorado, 80021

Dear Mr. Kundert:

This is in response to your application for an amended Supplemental Type Certificate (STC) to install updated eConnect IFE LRUs and installation in Pilatus PC-12/47E aircraft.

Our review of the data submitted indicates that 14 CFR Part 23 of the Federal Aviation Regulations (FAR) have been met. Enclosed is:

- 1) Amended STC No. SA04153AT, dated November 10, 2016.
- 2) Instructions for Continued Airworthiness Instructions, Installation of the EMTEQ eConnect In-Flight Entertainment (IFE) system on the Pilatus PC-12/47E aircraft, Document Number 2-125214-802, Revision E, dated August 24, 2016, FAA accepted on October 31, 2016.

In accordance with 14 CFR Part 21.3, and as a recipient of this certificate, you are required to report any failure, malfunction, or defect, except as provided in 14 CFR Part 21.3(d), in any product or part manufactured by you or your contracted suppliers, and which you have determined has resulted or could result in any occurrences listed in 14 CFR Part 21.3(c). The report should be communicated initially by telephone to the Manager, Denver Aircraft Certification Office, at (303) 342-1081, within 24 hours after it has been determined a failure has occurred, and followed up with a written notice to the address shown above. FAA form 8010-4, Malfunction or Defect Report or other appropriate format is acceptable in transmitting the required details.

You, as the STC holder, are responsible for any design changes necessary to correct unsafe conditions as well as for submitting those design changes to this office for approval. This requirement is contained in 14 CFR 21.99. In addition, you are required to advise this office of any change of address or ownership.

Also, 14 CFR Part 21.50 requires you to provide at least one copy of the instructions for continued airworthiness (ICA), applicable to this change, to the aircraft owner/operator at the

time the aircraft is returned to service. Thereafter, the holder of a design approval must make those instructions available to any other person required by this chapter to comply with any of the terms of those instructions. In addition, changes to the ICA must be made available to any person required by this chapter to comply with any of those instructions.

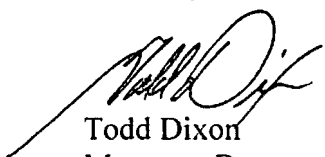
If you plan to manufacture replacement or modification parts for sale in conformance with approved data listed on the Certificate, you are required to apply for a Parts Manufacturer Approval (PMA) in accordance with 14 CFR Part 21 Subpart K. A PMA may be issued under the provisions of 14 CFR Part 21 Subpart K. The identification requirements for parts produced under a PMA are in 14 CFR Part 45.15. Your request for the PMA, with reference to STC SA04153AT, should be addressed to the Federal Aviation Administration, Northwest Mountain Region, Attention: Manager, Los Angeles Manufacturing Inspection District Office, at the address indicated below:

Federal Aviation Administration  
Los Angeles Manufacturing Inspection District Office, ANM-108L  
3960 Paramount Blvd.  
Lakewood, CA 90712-4137

By accepting this STC amendment, you acknowledge that you have read and understand your responsibilities as an STC holder.

The FAA project number SA6507DE-A is considered closed. If you have any questions, please contact Mark Dalrymple at (303) 342-1090.

Sincerely,



Todd Dixon  
Manager, Denver Aircraft Certification Office

Enclosures



United States of America  
Department of Transportation  
Federal Aviation Administration

## Supplemental Type Certificate

Number: SA04153AT

This certificate issued to: Pilatus Business Aircraft  
11755 Airport Way  
Broomfield, Colorado, 80021

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 23\* of the Federal Aviation Regulations. \*See Page 3

Original Product – Type Certificate Number: A78EU

Make: Pilatus

Model: PC-12/47E

### Description of Type Design Change:

Installation of the EMTEQ eConnect In-Flight Entertainment (IFE) System on the Pilatus PC-12/47E Series aircraft and associated hardware in accordance with Master Drawing List, Document No. 2-125214-001, Revision E, dated November 07, 2016, FAA approved November 10, 2016 or later FAA approved revision.

### Limitations and Conditions:

1. The installation must not be incorporated in any aircraft unless the installer determines that the interrelationship between this installation and any previously approved configuration will not introduce any adverse effect upon the airworthiness of the aircraft.
2. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

(Limitations and Conditions continued on page 3 of 3)

*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: January 09, 2014

Date Reissued: January 13, 2015; February 26, 2015

Date of Issuance: May 16, 2014

Date Amended: August 01, 2014; November 10, 2016

By Direction of the Administrator

Signature

Title

Todd Dixon  
Manager, Denver Aircraft Certification Office  
Northwest Mountain Region

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).



United States of America  
Department of Transportation Federal Aviation Administration

# Supplemental Type Certificate

(Continuation Sheet)

Number: SA04153AT

Date of Issuance: May 16, 2014

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:*

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

# Supplemental Type Certificate

(Continuation Sheet)

Number: SA04153AT

Date of Issuance: May 16, 2014

3. A copy of this certificate must be maintained as part of the records of the altered aircraft.
4. FAA approved Airplane Flight Manual Supplement for the EMTEQ eConnect In-Flight Entertainment (IFE), 2-125214-800, Revision IR, dated May 16, 2014, or later FAA approved revision is required for the modified PC-12/47E aircraft.
5. Instructions for Continued Airworthiness Instructions, Installation of the EMTEQ eConnect In-Flight Entertainment (IFE) system on the Pilatus PC-12/47E aircraft, Document Number 2-125214-802, Revision E, dated August 24, 2016, FAA accepted on October 31, 2016 or later FAA accepted must be made available in accordance with 14 CFR 21.50(b).

*Certification Basis:*

1. Certification Basis is set forth in Type Certificate Data Sheet A78EU.
2. It was determined that there is no acoustical change in accordance with 14 CFR 21.93(b)(3)(iii) as a result of this modification.

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END

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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).







Pilatus Business Aircraft Ltd.  
Broomfield, Colorado

## ENGINEERING REPORT

**PC-12/47E**

Report Number: 2-125214-001

Report Title: MASTER DRAWING LIST, INSTALLATION OF THE EMTEQ  
ECONNECT IN-FLIGHT ENTERTAINMENT (IFE) SYSTEM ON THE  
PILATUS PC-12/47E AIRCRAFT

Requirement: 14 CFR 23

Issuing Office: Engineering

Date of Initial Issue: 28-FEB-14

Prepared by: J. VIGIL

Checked by: C. SWINK

Approved By: D. KUNDERT

### Approval (Document Approval in Accordance with Pilatus Business Aircraft Procedure EN-01)

Prepared By

Checked By

Approved By



Pilatus Business Aircraft Ltd.  
Broomfield, Colorado

2-125214-001

**Master Drawing List, Installation of the EMTEQ eConnect In-Flight  
Entertainment (IFE) System on the Pilatus PC-12/47E Aircraft**

**APPROVAL RECORD**

Revision	Date	Prepared By	Checked By	Approved By	Description of Change
Initial Release	28-FEB-14	J. LLORENS	J. BEATTY	J. BEATTY	Initial release
A	28-APR-14	J. LLORENS	J. BEATTY	J. BEATTY	Updated Documents
B	13-JUN-14	J. LLORENS	J. BEATTY	J. BEATTY	Adds XM installation option
C	25-JUL-14	J. LLORENS	J. BEATTY	J. BEATTY	Update for amendment to the STC (Config 2).
D	17-FEB-15	J.VIGIL	C.SWINK	D.KUNDERT	Updated document format to Pilatus standard. Added aircraft applicability chart. Added documents 2E-1301-31-0001, 2E-1301-31-0002 and 2E-1301-61-0000. Updated revision levels of existing documents, reference change bar in margin.
E	07-NOV-16	See front page for signatures			Updated revision levels for existing documents; added the Cabin USB Charging Port information; added eConnect CWR451 series model information and relevant design changes; reference change bar for changes made to document;

This page will be updated for each new issue



Pilatus Business Aircraft Ltd.  
Broomfield, Colorado

**2-125214-001**

**Master Drawing List, Installation of the EMTEQ eConnect In-Flight  
Entertainment (IFE) System on the Pilatus PC-12/47E Aircraft**

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**PROPRIETARY NOTICE**

This document contains Pilatus Business Aircraft Limited (in this document called PILATUS) proprietary information and shall at all times remain the property of PILATUS; no intellectual property right or license is granted by PILATUS in connection with any information contained in it. It is supplied on the express condition that said information is treated as confidential, shall not be used for any purpose other than that for which it is supplied, shall not be disclosed in whole or in part, to third parties other than the PILATUS Group members and associated Partners, their subcontractors and suppliers (to the extent of their involvement in PILATUS projects), without PILATUS prior written consent.

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**APPLICABILITY**

This document is applicable to the following PC-12 aircraft:

Standard Aircraft Drawing Number	MTOW		
	4100 kg	4500 kg	4740 kg
<b>500.00.12.000 - 010</b>	<del>PC-12</del>	<del>PC-12/45</del>	N/A
<b>500.00.12.015 - 888</b>	N/A	<del>PC-12/45</del>	<del>PC-12/47</del>
<b>500.01.12.001 - UP</b>	N/A	N/A	PC-12/47E

## 1 INSTALLATION DOCUMENTS

The installation documents listed below are in reference to the eConnect In-Flight Entertainment System. These documents are required for the proper installation of the system in the Pilatus PC-12/47E.

### 1.1 Installation Documents Common to All Configurations

The installation documents listed in this section are common to all configurations of the eConnect In-Flight Entertainment System as installed in the Pilatus PC-12/47E.

Drawing/Document Number	Rev	Date	Title
2E-1301-30-0005	A	12-MAR-14	RH Circuit Breaker Panel CB Installation
2E-1301-30-0009	-	16-JAN-14	USB Data Port Installation
2E-1301-30-0010	A	9-APR-14	IFE System Master Switch Installation
2E-1301-30-0014	C	19-MAR-14	WIFI System Cabinet Inserts Installation
2E-1301-30-0015	C	4-FEB-2015	eConnect IFE Antenna Installation
2E-1301-30-0016	A	13-FEB-2014	EX-6S-2, IFE Armrest Switch Installation
2E-1301-30-0018	A	13-FEB-2014	EX-8S, IFE Armrest Switch Installation
2E-1301-30-0019	A	14-FEB-2014	EX-7S, IFE Armrest Switch Installation

**Table 1-1 - Installation documents common to all configurations**

### 1.2 Configuration 1 - Non XM Radio Interface

The installation documents listed in this section are applicable to the non-XM radio configuration (Configuration 1) of the eConnect In-Flight Entertainment System as installed in the Pilatus PC-12/47E. This configuration is applicable to eConnect part numbers CWR450-2000-01 or CWR450-2000-02. Rev. E of this MDL also introduces the new eConnect part numbers CWR451-2000-01 and CWR451-2000-02 as applicable to this configuration.

Drawing/Document Number	Rev	Date	Title
2E-1301-20-0001	D	22-MAR-16	eConnect Basic WIFI System
2E-1301-21-0000	B	24-OCT-16	Harness Installation, eConnect W/O XM
2E-1301-30-0012	B	4-APR-16	eConnect IFE Router Installation
2-125214-801	D	15-SEP-16	Ground Test Procedure, Installation of the EMTEQ eConnect In-Flight Entertainment (IFE) System on the Pilatus PC-12/47E Aircraft
2E-1301-31-0001	A	22-MAR-16	Master Kit List, eConnect W/O XM

**Table 1-2 - Configuration 1 - Non XM Radio Interface**

### 1.3 Configuration 2 - XM Radio Interface

The installation documents listed in this section are applicable to the XM radio configuration (Configuration 2) of the eConnect In-Flight Entertainment System as installed in the Pilatus PC-12/47E. This configuration is applicable to eConnect part numbers CWR450-5000-01 or CWR450-5000-02. Rev. E of this MDL also introduces the new eConnect part numbers CWR451-5000-01 and CWR451-5000-02 as applicable to this configuration.

Drawing/Document Number	Rev	Date	Title
2E-1301-20-0002	J	22-MAR-16	eConnect XM Radio IFE WI-FI System
2E-1301-21-0001	C	25-OCT-16	Harness Installation, eConnect W/XM
2E-1301-30-0011	-	28-JAN-14	XM Receiver Installation, XMR100
2E-1301-30-0020	B	4-APR-16	eConnect IFE XM Router Installation
2-125214-801	D	15-SEP-16	Ground Test Procedure, Installation of the EMTEQ eConnect In-Flight Entertainment (IFE) System on the Pilatus PC-12/47E Aircraft
2E-1301-31-0002	A	22-MAR-16	Master Kit List, eConnect W/ XM

**Table 1-3 - Configuration 2 - XM Radio Interface**

### 1.4 Optional Cabin USB Charging Port Installation

The installation documents contained within this section are optional and define the installation of the USB charging ports within the passenger cabin. The installation of the Cabin USB charging ports is not dependent on any of the installation configurations defined in Sections 1.1, 1.2, or 0.

Drawing/Document Number	Rev	Date	Title
2E-1301-20-0003	B	25-MAR-14	USB Cabin Charging Ports
2E-1301-30-0004 <sup>(9)</sup>	C	14-SEP-16	EX-6S-2, USB Charging Ports Installation
2E-1301-30-0006 <sup>(9)</sup>	B	24-AUG-16	EX-4S-STD-4S, USB Charging Ports Installation
2E-1301-30-0007 <sup>(9)</sup>	B	24-AUG-16	EX-8S, USB Charging Ports Installation
2E-1301-30-0008 <sup>(9)</sup>	B	24-AUG-16	EX-7S, USB Charging Ports Installation
2E-1301-30-0021	A	5-AUG-16	CB Installation, Cabin USB Chargers
2-162318-801	A	23-AUG-16	GROUND TEST PROCEDURE, Installation of the USB Charging Ports on the Pilatus PC-12/47E Aircraft
2E-1301-21-0003	-	03-OCT-16	CABIN USB Charger Wire Routing
2E-1301-31-0003	-	03-OCT-16	Master Kit List, Cabin USB Charging Ports

**Table 1-4 - Optional USB Cabin Charging Ports**

## 2 SUPPORTING DOCUMENTATION

The supporting documents listed below are in reference to the eConnect In-Flight Entertainment System. These documents are required for the proper operation and maintenance of the system in the Pilatus PC-12/47E.

Drawing/Document Number	Rev	Date	Title
2-125214-800 <sup>(6)</sup>	IR	16-MAY-14	FAA Approve Airplane Flight Manual Supplement (AFMS) for the EMTEQ eConnect In-Flight Entertainment (IFE) System (with WLAN/WIFI) on the Pilatus PC-12/47E Aircraft
2-125214-802 <sup>(6)</sup>	E	24-AUG-16	Instructions for Continued Airworthiness, Installation of the EMTEQ eConnect In-Flight Entertainment (IFE) System on the Pilatus PC-12/47E Aircraft
2-125214-904	B	9-SEP-16	Electrical Load Analysis, Installation of the EMTEQ eConnect IFE in the Pilatus PC-12/47E Aircraft
2-125214-905	B	23-SEP-16	Weight and Balance Change Record, Installation of the EMTEQ eConnect In-Flight Entertainment (IFE) System on the Pilatus PC-12/47E Aircraft

**Table 2-1 - Supporting Documentation**

## 3 MANUFACTURING DOCUMENTATION

The manufacturing documents listed below are in reference to the eConnect In-Flight Entertainment System. The documents contained within this section are not provided for installation.

### 3.1 Manufacturing Documents - Common to All Configurations

Table 3-1 below lists all manufacturing documents applicable to any eConnect installation configuration as listed in section 1.1.

Drawing/Document Number	Rev	Date	Title
2-125214-003	IR	21-JAN-14	Component Drawing List, Switch Panel Part Number PC12-SUX-XXX-XX
D100-0824-100	J	28-DEC-09	100 Ohm Cat 5e Ethernet Cable
U090-0422-100 <sup>(12)</sup>	E03	18-APR-14	90 Ohm USB Cable
RJ45-0824-LGOD <sup>(12)</sup>	B03	13-SEP-11	8 Conductor Modular Plug
2E-1301-32-0000 <sup>(2)</sup>	A	20-JAN-14	eConnect IFE Antenna Mount Bracket
2E-1301-32-0002 <sup>(2)</sup>	-	10-JAN-14	WIFI Ent CB Panel Placard
2E-1301-32-0003 <sup>(2)</sup>	A	9-FEB-15	USB Data Port Bracket
2E-1301-32-0004 <sup>(2)</sup>	-	17-JAN-14	IFE System Master Switch Placard
2E-1301-32-0005 <sup>(2)</sup>	-	17-JAN-14	IFE WIFI, Master Switch Placard
5W-2.40-2.50-XTB-4 <sup>(3)</sup>	-	10-APR-14	VHF, L, L/S or C-Band Active, Passive Omni Antenna



**Master Drawing List, Installation of the EMTEQ eConnect In-Flight Entertainment (IFE) System on the Pilatus PC-12/47E Aircraft**

Drawing/Document Number	Rev	Date	Title
TNC-M-RG316-30in-RPS-M <sup>(3)</sup>		8-FEB-14	TNC-M-RG316-30in-RPS-M
106401 <sup>(4)</sup>	A	16-FEB-15	USB Port Assembly w/Lid
816115 <sup>(4)</sup>	IR	7-FEB-14	USB Port Assembly w/Lid
2E-1301-32-0011 <sup>(2)</sup>	-	9-JUL-14	Placard, E 198
2E-1301-32-0012 <sup>(2)</sup>	-	9-JUL-14	Placard, E 208
2E-1301-32-0013 <sup>(2)</sup>	-	9-JUL-14	Placard, E 218

**Table 3-1 - Manufacturing Documents - Common to All Configurations****3.2 Manufacturing Documents - Configuration 1 - Non XM Radio Interface**

Table 3-2 below lists all manufacturing documents applicable to the Non-XM eConnect installation configuration as listed in section 1.2.

Drawing/Document Number	Rev	Date	Title
2-125214-002	A	28-MAY-14	Component Drawing List, eConnect IFE Part Number CWR450-X000-XX
2E-1301-22-0000 <sup>(2)</sup>	E	6-APR-16	Harness Assembly, eConnect W/O XM Radio

**Table 3-2 - Manufacturing Documents - Configuration 1 - Non XM Radio Interface****3.3 Manufacturing Documents - Configuration 2 - XM Radio Interface**

Table 3-3 below lists all manufacturing documents applicable to the XM eConnect installation configuration as listed in section 1.3.

Drawing/Document Number	Rev	Date	Title
2E-1301-22-0001 <sup>(2)</sup>	F	29-JUL-16	Harness Assembly, eConnect w/XM Radio
2E-1301-22-0002 <sup>(2)</sup>	D	29-SEP-16	Harness Assembly, XMR-100
2E-1301-22-0003 <sup>(2)</sup>	A	18-JUL-14	Ethernet Cable Assy., eConnect W/XM
2E-1301-22-0004 <sup>(2)</sup>	-	27-FEB-14	Coax Cable Assembly, XMR-100
2E-1301-32-0006 <sup>(2)</sup>	-	27-FEB-14	Placard, A 288
5531412921 <sup>(2)</sup>	-	2-MAR-06	Bracket

**Table 3-3 - Manufacturing Documents - Configuration 2 - XM Radio Interface****3.4 Manufacturing Documents - Optional Cabin USB Charging Port**

Table 3-4 below lists all manufacturing documents applicable to the Optional Cabin USB Charging Port installation configuration as listed in section 1.4.

Drawing/Document Number	Rev	Date	Title
2E-1301-22-0005	-	12-MAR-14	Loose Wire Kit, Cabin USB Charger
2E-1301-32-0014	-	5-AUG-16	PLACARD, CAB USB CHRG
12-1500-32-0067	-	9-NOV-15	PLACARD, A 2710

12-1500-32-0068	-	9-NOV-15	PLACARD, A 2311
12-1500-32-0075	-	23-AUG-16	PLACARD, A 2310

**Table 3-4 – Manufacturing Documentation – USB Cabin Port Configuration**

## 4 CERTIFICATION DOCUMENTATION

The certification documents listed below are in reference to the eConnect In-Flight Entertainment System. These documents are required for the STC certification of the system in the Pilatus PC-12. The documents contained within this section are not provided for installation.

### 4.1 Certification Documents related to the STC Installation and MDL Revisions

Table 4-1 below references the certification documents pertinent to the general STC installation. This table also list Minor Change Assessment document support revision changes to the MDL not requiring revision of the full STC.

Drawing/Document Number	Rev	Date	Title
6-798	A01	19-FEB-14	Declaration of Qualification: Similarity Report, Part Number PC12-SUL-101-XX, PC12-SUL-201-XX, PC12-SUR-101-XX, PC12-SUR-201-XX, Qualified by similarity to EMTEQ Part Number: PC12-SUR-200
38031-01 <sup>(5)</sup>	IR		Environmental Testing on (4) Lighting Control Switches
38039-01 <sup>(5)</sup>	IR		Electromagnetic Compatibility Test on a RH Double Switch Panel Part Nos. PC12-SUL-300 and PC12-SUR-200
2-125214-901	A	4-APR-14	Flammability Assessment Report/Test Plan, Installation of the EMTEQ eConnect IFE in the Pilatus PC-12/47E
2-125214-910	IR	10-JUN-14	Flammability Assessment Report, Installation of the EMTEQ eConnect IFE in the Pilatus PC-12/47E Aircraft (with XM Receiver)
2-125214-902	A	18-APR-14	Portable Electronic Device (PED) Tolerance Assessment Report/Test Plan, Pilatus PC-12/47E Aircraft
2-125214-903	IR	18-FEB-14	Flight Electro-Magnetic Compatibility (EMC) Test Procedure, Installation of the EMTEQ eConnect IFE in the Pilatus PC-12/47E Aircraft
2-125214-911	IR	10-JUN-14	Ground Electro-Magnetic Compatibility (EMC) Test Procedure, Installation of the EMTEQ eConnect IFE in the Pilatus PC-12/47E Aircraft
2-125214-906	A	27-MAY-14	Substantiation Report, Installation of the EMTEQ eConnect In-Flight Entertainment (IFE) System on the Pilatus PC-12/47E Aircraft

Drawing/Document Number	Rev	Date	Title
2E-1301-34-0001 <sup>(2)</sup>	-	9-APR-14	Structural Analysis – XMR100 XM Radio Receiver Installation
2E-1301-34-0000 <sup>(2)</sup>	IR	27-FEB-14	Weight Study – RH FWD Cabinet w/eConnect Ent. Sys.
P57R14-115 <sup>(7)</sup>	FINAL	24-APR-13	Portable Electronic Device Tolerance Assessment Report for the Pilatus PC-12/47E
2E-1301-13-0001 <sup>(2)</sup>	IR	16-APR-14	Similarity Report RTCA DO-307 Qualification of Avionics Equipment
2E-1301-61-0000 <sup>(2)</sup>	-	13-FEB-14	Minor Change Assessment, MDL Revision C to D
2-162318-901	A	15-SEP-16	GROUND ELECTRO-MAGNETIC COMPATIBILITY (EMC) TEST PROCEDURE, Installation of the B/E Aerospace eConnect IFE & USB Charging Ports in the Pilatus PC-12/47E Aircraft

**Table 4-1 - Certification Documentation – STC Installation**

## 4.2 Certification Documents related to CWR450 Series eConnect LRU

Table 4-2 below references the documents relevant to the CWR450 Series eConnect LRU qualification and certification for the STC package.

Drawing/Document Number	Rev	Date	Title
2-102407-CWR <sup>(1)</sup>	IR	2-NOV-12	Component Drawing List, eConnect
6-763	B00	29-MAY-14	Qualification by Similarity and Analysis for the eConnect P/N CWR450-2000-01
6-795	B00	29-MAY-14	Qualification by Similarity and Analysis for the eConnect P/N CWR450-2000-02
8-791	B01	11-JUN-14	Qualification Test Procedure for eConnect P/N CWR450-5000-01
6-837	A01	22-JUL-14	Similarity and Analysis Report, Part Number CWR450-5000-XX, eConnect (Audio Encoder & Router)
2E-1301-13-0000 <sup>(2)</sup>	IR	16-APR-14	Engineering Report Comparison Analysis of Section 20 RTCA DO-160 Version D and E
8-791-002	A01	17-JUL-14	Qualification Report, eConnect, Part Number: CWR450-5000-01
43197 <sup>(8)</sup>	R0		eConnect Qualification

**Table 4-2 - Certification Documentation – CWR450 Series eConnect LRU**

### 4.3 Certification Documents related to CWR451 Series eConnect LRU

Table 4-3 below references the documents relevant to the CWR450 Series eConnect LRU qualification and certification for the STC package.

Drawing/Document Number	Rev	Date	Title
CWR451-2000-XX	A01	12-APR-16	ASSY, eCONNECT2, ROUTER, [CAPACITY]
CWR451-5000-XX	C00	26-MAY-16	ASSY, eCONNECT2, ENCODER, ROUTER, [CAPACITY]
EMDL-0023 <sup>(10)</sup>	A04	12-AUG-16	Master Component Drawing List for eConnect P/N: CWR451-2000-01, CWR451-2000-02, CWR451-5000-01 and CWR451-5000-02
8-870-002	A04	8-JUN-16	Qualification Test Procedure – eConnect 2.0
8-870-004	A05	20-JUN-16	Qualification Test Procedure – eConnect 2.0
8-870-102	A02	2-AUG-16	Qualification Test Report Summary – eConnect 2.0
21969 <sup>(11)</sup>	B	1-AUG-16	Test Report and Specifications RTCA/DO-160G Section 21 for CWR451-2000-02
21975 <sup>(11)</sup>	F	28-JUL-16	Test Report and Specifications RTCA/DO-160G Sections 16/17 & 21 for CWR451-5000-02
16CA059 <sup>(11)</sup>	04	19-JUL-16	ENVIRONMENTAL TEST REPORT CWR451-5000-02 eConnect 2.0 Encoder, Router
6-987	B03	12-AUG-16	Similarity and Analysis Report eConnect 2.0 – Environmental Qualification
25717	B	6-JUN-16	FLAMMABILITY TEST REPORT: 12 Second Vertical Testing and 60 Degree Wire Testing eConnect IFE Router and Encoder/Router LRUs (P/N CWR451-2000-0X and CWR451-5000-0X)
2-162318-902	IR	23-SEP-16	SUBSTANTIATION REPORT, Installation of the B/E Aerospace eConnect In-Flight Entertainment (IFE) System on the Pilatus PC-12/47E Aircraft – STC SA04153AT Amendment

**Table 4-3 - Certification Documentation – CWR451 Series eConnect LRU**

**Notes:**

- (1) Drawing and compliance data for the eConnect CWR450-4000-01 used in similarity assessment to CWR450-2000-0X.
- (2) Pilatus drawing.
- (3) Antcom Corp drawing.
- (4) Mid Continent Controls drawing.
- (5) Elite Electronics Engineering document.
- (6) Or later FAA approved/accepted revision of the AFMS and Instructions for Continued Airworthiness (ICA).
- (7) Electronic Test Centre report.

- (8) Trace Laboratories document.
- (9) Use of these documents is dependant upon interior configuration of the aircraft. Only one installation is required per aircraft.
- (10) Master Component List configures all assembly components for the eConnect LRU
- (11) DLS Labs Testing / Qualification Document
- (12) B/E Aerospace (EMTEQ) Component Drawing





U.S. Department of  
Transportation Federal  
Aviation  
Administration

**MAJOR REPAIR AND ALTERATION**  
**(Airframe, Powerplant, Propeller, or Appliance)**

OMB No. 2120-0020 Electronic Tracking Number

Exp: 8/31/2014

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 44701). Failure to report can result in a civil penalty not for each such violation (49 U.S.C. 46301(a))

<b>1. Aircraft</b>	Nationality and Registration Mark <b>N42NP</b>	Serial No. <b>1905</b>	
	Make <b>Pilatus</b>	Model <b>PC-12</b>	Series <b>47E</b>
<b>2. Owner</b>	Name (As shown on registration certificate) <b>PILATUS BUSINESS AIRCRAFT, LTD.</b>	Address (As shown on registration certificate) <b>12300 PILATUS WAY BROOMFIELD, CO 80021 USA</b>	


**3. For FAA Use Only**

<b>4. Type</b>		<b>5. Unit Identification</b>			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME		(As described in Item 1 above)	
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

**6. Conformity Statement**

<b>A. Agency's Name and Address</b> <b>PILATUS BUSINESS AIRCRAFT, LTD.</b> <b>12300 PILATUS WAY</b> <b>BROOMFIELD, CO 80021 USA</b>	<b>B. Kind of Agency</b>		<b>C. Certificate No.</b> <b>ZP8R849Y</b>
	<input type="checkbox"/> U.S. Certified Mechanic	<input type="checkbox"/> Manufacturer	
	<input type="checkbox"/> Foreign Certified Mechanic		
	<input checked="" type="checkbox"/> Certificated Repair Station		
	<input type="checkbox"/> Certificated Maintenance Organization		

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Sergio S. Robles 	Nov 06, 2019
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**7. Approval for Return to Service**

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport	
	FAA Designee	<input checked="" type="checkbox"/> Repair Station	Inspection Authorization	Other (Specify)	
Certificate or Designation No. <b>ZP8R849Y</b>		Signature/Date of Authorized Individual <b>Sergio S. Robles</b>  <b>Nov 06, 2019</b>			

## NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

### 8. Description of Work Accomplished

(If more space is required, attached additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

**PC-12/47E**

**S/N 1905**

**N42NP**

**Nov 06, 2019**

Nationality and Registration Mark

Date

#### This aircraft has been modified by the installation of the following:

GOGO Business Aviation AVANCE L3 Wi-Fi internet system in reference to GOGO Business Aviation AVANCE L3 Installation Manual # D24733 Rev. E consisting of the following components:

**GOGO Avance L3 Transceiver** P/N P34110-003 weighing 12.0 lbs. and mounting tray P/N P41234 weighing 3 lbs. located under the cabin floor at station 326.4

**Aircell Configuration Module** P/N P14126 weighing .5 lbs. located under the cabin floor on frame 30

**6 total Wi-Fi Antennas** P/N P16917-001 weighing .11lbs each located above the cabin headliner, 3 are at station 242.5 and 3 are at station 253.3 as provisions only. The connectors for the antennas have been bagged and stowed at this time.

**2 each Terrestrial Modem Antennas** P/N P18350-001 weighing .11 lbs. each. The left antenna is located behind the cabin sidewall at station 282.6 aft of the left #3 cabin window. The right antenna is located behind the cabin sidewall at station 286.4 between windows 3 & 4

**A forward Aircell ABS ATG antenna** P/N P12949 weighing 1.3 lbs. on the lower fuselage at station 192.7

**An aft Aircell ABS ATG antenna** P/N P12949 weighing 1.3 lbs. on the lower fuselage at station 276.5

**2 annunciator switches** in the left cockpit instrument panel, P/N LED-42-14-EA3E2966 (GND DATA ON/OFF) and P/N LED-42-14-EA3-E2964 (AIR DATA ON/OFF)

**A 10 amp circuit breaker** labeled L3 XCVR and a **1 amp circuit breaker** labeled L3 ACM located on the copilot's circuit breaker panel on the Generator 2 bus. A **1 amp circuit breaker** labeled L3 Relay CTL located on the copilot's circuit breaker panel on the Cabin Bus

**A Ethernet Maintenance and USB ports** are located on the right baggage sidewall

The equipment was installed in accordance with the following drawings:

12-1803-30-0001 Rev. C AVANCE L3 Transceiver/ACM Installation approved by DERT-636371-NM reference FAA Form 8110-3 dated Oct 09, 2019

and Structural Analysis Equipment Shelf 12-1500-34-0002 Rev. A approved by DERT-636371-NM reference FAA Form 8110-3 dated Oct 09, 2019

12-1803-30-0000 Rev. B Wi-Fi Antenna Installation approved by approved by DERT-636371-NM reference FAA Form 8110-3 dated Oct 09, 2019

12-1707-30-0007 Rev. B. TM Antenna Installation approved by approved by DERT-636371-NM reference FAA Form 8110-3 dated Oct 09, 2019

12-1800-30-0006 Rev. C Aircell AHSI Antenna Installation FWD, FR17-18 approved by DERT-636371-NM reference FAA Form 8110-3 dated Oct 09, 2019

12-1800-30-0007 Rev. D Aircell AHSI Antenna Installation AFT, FR 25-26 approved by DERT-636371-NM reference FAA Form 8113-3 dated Oct 09, 2019

12-1803-30-0004 Rev. – AVANCE Cockpit Annunciators Installation approved by DERT-636371-NM reference FAA Form 8110-3 dated Oct 09, 2019

12-1803-30-0003 Rev. – AVANCE Ethernet/USB Port Installation approved by DERT-636371-NM reference FAA Form 8110-3 dated Oct 09, 2019

The wiring for the system was installed in accordance with drawing 2E-1803-20-0002 Rev. B. AVANCE L3 with Econect approved by DERT-830657NM reference FAA Form 8110-3 dated Oct 09, 2019, and PBA.531.004 Rev. A and PBA.533.003 Rev. A approved by DERT-830657NM reference FAA form 8110-3 dated Oct. 09, 2019 and 2E-1803-21-0000 Rev B. AVANCE L3 Wire Routing.

The AVANCE L3 system provides Wi-Fi connectivity between laptops and or Personal Electronic Devices in the aircraft cabin. The AVANCE L3 utilizes a proprietary system consisting of an exclusive air to ground link and a network of terrestrial transceiver sites. These are in turn connected through GOGO Business Aviation's Network Operations Center to provide internet access.

**Instructions for Continued Airworthiness (ICA):** The GOGO AVANCE L3 system components consisting of the transceiver, mounting tray, ACM, Wi-Fi & TM antennas and annunciators are on condition items and require no periodic inspections or maintenance. The transceiver has a PCB mounted Lithium Coin Battery that should be changed every 14 years. The Aircell AHSI Antennas have an initial inspection at 4000 flights after installation and are to be re-inspected every 4000 flights thereafter. Upon reaching 60,000 flights, the inspection program is to be evaluated for fatigue damage. Reference page 10 of document 12-1500-34-0002 Rev. A. Stress, Fatigue, and Damage Tolerance Analysis and Evaluation, Typical Antenna Installations, PC-12 Series Aircraft Document approved by DERT-636371-NM reference FAA Form 8110-3 dated Oct 09, 2019

Electrical loads have been evaluated in accordance with FAA Advisory Circular AC 43.13-1B (Change 1) Chapter 11, Paragraph 11-36 and were found to be within limits. Wire used in the above installations conforms to M27500 or M22759/16 specifications of the appropriate gauge as required, and was selected and installed in accordance with FAA Advisory Circular 43.13-2B Chapter 2, Paragraph 207 with additional references to AC 43.13-1B (Change 1) Paragraphs 11-76 through 11-77, 11-115 through 11-147, 11-175 through 11-179, 11-187 through 11-197, 11-205 through 11-208, and 11-231.

The antenna installation conforms to AC 43.13-2B Chapter 3, Paragraphs 300 through 306, 307 (a-c and e) and Paragraphs 308 through 309. The above installations meet the requirements for static loading in accordance with AC 43.13-2B Chapter 1, Paragraph 103 (d) and Paragraph 104 (a) and materials and methods were chosen and employed in accordance with AC 43.13-2B Chapter 1, Paragraphs 106 through 114.

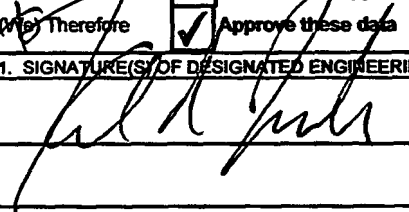
All required functional ground checks have been completed with satisfactory results. No changes are noted in the aircraft compass system. Weight and balance records are revised and equipment list is amended. Further details of this installation are on file at Pilatus Business Aircraft, Ltd. under Work Package 2140.

\*\*\*\*\*NOTHING FOLLOWS\*\*\*\*\*

☒ Additional Sheets Are Attached





U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION <b>STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS</b>			1. DATE 10/09/19
<b>AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION</b>			
2. MAKE Pilatus	3. MODEL NO. PC-12/47E	4. TYPE (Aircraft, Engine, Propeller, etc.) Airplane	5. NAME OF APPLICANT Pilatus
<b>LIST OF DATA</b>			
6. IDENTIFICATION  PBA.531.004, Rev A, Dated 11/14/2012  PBA.533.003, Rev A, Dated 06/26/13	7. TITLE  System Test Electrical, Drawing No. PBA.531.004, Rev A, Dated 11/14/12  Option Advisory Bus, Drawing No. PBA.533.003, Rev A, Dated 06/26/13   Note: 1. This approval covers electrical detail only. 2. This approval is valid for Pilatus PC-12/47E MSN 1905. This approval is for electrical engineering design data only and is not an installation approval. It indicates the data listed above demonstrates compliance only with the regulations specified by subparagraph and listed below as "APPLICABLE REQUIREMENTS". Compliance to additional regulations not listed here may be required. This installation needs to be tested to demonstrate proper operation and no interaction and interference with other aircraft systems exist. This form does not constitute approval of the entire alteration.		
8. PURPOSE OF DATA To validate the electrical portion of the above data in support of a FAA form 337.			
9. APPLICABLE REQUIREMENTS (List specific sections) CFR Part 23, Sections: 23.1301 (Amdt 23-20)			
10. CERTIFICATION - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under 14 CFR Part 183, data listed above and on attached sheets numbered _____ have been examined in accordance with established procedures and found to comply with applicable requirements of the Airworthiness Standards listed.			
<div style="display: flex; justify-content: space-between; align-items: center;"> <div> <input checked="" type="checkbox"/> I (We) Therefore <input checked="" type="checkbox"/> Approve these data         </div> <div> <input type="checkbox"/> Recommend approval of these data         </div> </div>			
11. SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S)  <div style="text-align: right;">Kurt A. Zrubek</div>	12. DESIGNATION NUMBER(S) DERT-830657NM	13. CLASSIFICATION(S) System and Equipment	

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION <b>STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS</b>				1. DATE October 9, 2019
<b>AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION</b>				
2. MAKE Pilatus	3. MODEL NO. PC-12/47E	4. TYPE (Airplane, Radio, Helicopter, etc.) Airplane	5. NAME OF APPLICANT Pilatus Business Aircraft Broomfield, Colorado	
<b>LIST OF DATA</b>				
6. IDENTIFICATION	7. TITLE			
12-1803-30-0001, Revision C, 15-APR-2019  12-1500-31-0010, Revision -, 21-JUL-2015  12-1500-32-0016, Revision -, 21-JUL-2015  12-1707-32-0004, Revision -, 5-APR-2018  12-1707-32-0006, Revision -, 5-APR-2018  12-1707-32-0007, Revision -, 5-APR-2018  12-1707-32-0018, Revision -, 5-APR-2018  12-1803-32-0005, Revision -, 11-OCT-2018  12-1803-32-0012, Revision A, 11-JAN-2019	Avance L3 Transceiver/ACM Installation  Zee Assembly  Support, Zee  Support  Mounting Angle, Aft  Mounting Angle, Long  Mounting Angle, Fwd  Support  Bracket, Relay  NOTES: 1 - Applicable to Type Certificate Data Sheet (TCDS) A78EU 2 - Only the structural aspects of the above-listed data are approved herein. 3 - This approval is for engineering design data only and is not an installation approval. It indicates the data listed above demonstrates compliance only with the regulations specified by paragraph and subparagraph listed below as "APPLICABLE REQUIREMENTS". This form does constitute FAA approval of all the engineering data necessary for substantiation of compliance to necessary requirements for the entire alteration. 4 - It is noted that this approval is for 14 CFR 23.571 and 14 CFR 23.573 and is not an approval for 14 CFR 23.1529.			
8. PURPOSE OF DATA: To support a major aircraft alteration to a Pilatus PC-12/47E, Serial Number 1905 only				
9. APPLICABLE REQUIREMENTS (List specific sections) 14 CFR Part 23, paragraphs (unless noted, all regulations are at Amendment Level 23-62): 23.301, 23.303, 23.305, 23.307(a), 23.571(c), 23.573(b), 23.601, 23.603, 23.605(a), 23.607, 23.609, 23.613(a)(b)(c)(d), 23.625, and 23.627				
10. CERTIFICATION - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under 14 CFR Part 183 of the Federal Aviation Regulations, data listed above and on attached sheets numbered <u>N/A</u> have been examined in accordance with established procedures and found to comply with applicable requirements of the Airworthiness Standards listed.				
<input type="checkbox"/> Recommend approval of these data <input checked="" type="checkbox"/> Approve these data				
I <del>W&amp;S</del> Therefore <input checked="" type="checkbox"/> Approve these data				
11. SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S) Rolf D. Hamerquist		12. DESIGNATION NUMBER(S) DERT-636371-NM		13. CLASSIFICATION(S) STRUCTURES

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION <b>STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS</b>			1. DATE October 9, 2019
<b>AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION</b>			
2. MAKE Pilatus	3. MODEL NO. PC-12/47E	4. TYPE (Airplane, Radio, Helicopter, etc.) Airplane	5. NAME OF APPLICANT Pilatus Business Aircraft Broomfield, Colorado
<b>LIST OF DATA</b>			
6. IDENTIFICATION	7. TITLE		
12-1800-30-0006, Revision C, 5-FEB-2019  12-1800-30-0007, Revision D, 27-MAR-2019  12-1800-32-0018, Revision -, 6-NOV-2018  12-1800-32-0019, Revision -, 6-NOV-2018  12-1800-32-0020, Revision -, 6-NOV-2018  12-1800-32-0021, Revision -, 7-NOV-2018  12-1800-32-0023, Revision -, 6-NOV-2018  12-1500-34-0002, Revision A, July 31, 2015	AHSI Antenna Installation, FWD, FR17-18  AHSI Antenna Installation, AFT, FR25-26  Angle, Connecting, LH, Extended  Angle, Connecting, RH, Extended  Doubler, AHSI Antenna  Angle, AHSI Antenna  Doubler, AHSI Antenna, AFT  Stress, Fatigue, and Damage Tolerance Analysis And Evaluation, Typical Antenna Installations, PC-12 Series Aircraft  <b>NOTES:</b> 1 - Applicable to Type Certificate Data Sheet (TCDS) A78EU 2 - Only the structural aspects of the above-listed data are approved herein. 3 - This approval is for engineering design data only and is not an installation approval. It indicates the data listed above demonstrates compliance only with the regulations specified by paragraph and subparagraph listed below as "APPLICABLE REQUIREMENTS". This form does constitute FAA approval of all the engineering data necessary for substantiation of compliance to necessary requirements for the entire alteration. 4 - Approved drawings 12-1800-30-0006 and 12-1800-30-0007 are subject to additional requirements for inspections and limits to be included as part of the airworthiness limitations section of the instructions for continued airworthiness as given in 12-1500-34-0002, Revision A, page 10 of 54. 5 - It is noted that this approval is for 14 CFR 23.571 and 14 CFR 23.573 and is not an approval for 14 CFR 23.1529.		
8. PURPOSE OF DATA: To support a major aircraft alteration to a Pilatus PC-12/47E, Serial Number 1905 only			
9. APPLICABLE REQUIREMENTS (List specific sections) 14 CFR Part 23, paragraphs (unless noted, all regulations are at Amendment Level 23-62): 23.301, 23.303, 23.305, 23.307(a), 23.571(c), 23.573(b), 23.601, 23.603, 23.605(a), 23.607, 23.609, 23.613(a)(b)(c)(d), 23.625, and 23.627			
10. CERTIFICATION - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under 14 CFR Part 183 of the Federal Aviation Regulations, data listed above and on attached sheets numbered <u>N/A</u> have been examined in accordance with established procedures and found to comply with applicable requirements of the Airworthiness Standards listed.			
<input type="checkbox"/> Recommend approval of these data <input checked="" type="checkbox"/> I (We) Therefore Approve these data			
11. SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S) Rolf D. Hamerquist		12. DESIGNATION NUMBER(S) DERT-636371-NM	13. CLASSIFICATION(S) STRUCTURES

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				1. DATE
STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS				October 9, 2019
AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION				
2. MAKE Pilatus	3. MODEL NO. PC-12/47E	4. TYPE (Airplane, Rotor, Helicopter, etc.) Airplane	5. NAME OF APPLICANT Pilatus Business Aircraft Broomfield, Colorado	
LIST OF DATA				
6. IDENTIFICATION	7. TITLE			
12-1707-30-0007, Revision B, 12-JUN-2019	TM Antenna Installations			
12-1707-32-0023, Revision B, 07-OCT-2019	Mount Plate, TM Antenna			
12-1707-32-0024, Revision A, 4-JUN-2019	Mounting Angle, Lower			
12-1707-32-0025, Revision -, 24-APR-2018	Mounting Angle, Upper			
<b>NOTES:</b> 1 - Applicable to Type Certificate Data Sheet (TCDS) A78EU 2 - Only the structural aspects of the above-listed data are approved herein. 3 - This approval is for engineering design data only and is not an installation approval. It indicates the data listed above demonstrates compliance only with the regulations specified by paragraph and subparagraph listed below as "APPLICABLE REQUIREMENTS". This form does constitute FAA approval of all the engineering data necessary for substantiation of compliance to necessary requirements for the entire alteration. 4 - It is noted that this approval is for 14 CFR 23.571 and 14 CFR 23.573 and is not an approval for 14 CFR 23.1529.				
8. PURPOSE OF DATA: To support a major aircraft alteration to a Pilatus PC-12/47E, Serial Number 1905 only				
9. APPLICABLE REQUIREMENTS (List specific sections) 14 CFR Part 23, paragraphs (unless noted, all regulations are at Amendment Level 23-62): 23.301, 23.303, 23.305, 23.307(a), 23.571(c), 23.573(b), 23.601, 23.603, 23.605(a), 23.607, 23.609, 23.613(a)(b)(c)(d), 23.625, and 23.627				
10. CERTIFICATION - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under 14 CFR Part 183 of the Federal Aviation Regulations, data listed above and on attached sheets numbered <u>N/A</u> have been examined in accordance with established procedures and found to comply with applicable requirements of the Airworthiness Standards listed.				
<input type="checkbox"/> Recommend approval of these data <input checked="" type="checkbox"/> I (We) Therefore Approve these data				
11. SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S) Rolf D. Hamerquist		12. DESIGNATION NUMBER(S) DERT-636371-NM		13. CLASSIFICATION(S) STRUCTURES









U.S. Department of Transportation Federal Aviation Administration		APPLICATION FOR U.S. AIRWORTHINESS CERTIFICATE		INSTRUCTIONS - Print or type. Do not write in shaded areas; these are for FAA use only. Submit original only to an authorized FAA Representative. If additional space is required, use attachment. For special flight permits complete Sections II, VI, and VII as applicable.																																																																																																																																																																						
I. AIRCRAFT DESCRIPTION	1. REGISTRATION MARK	2. AIRCRAFT BUILDER'S NAME (Make)	3. AIRCRAFT MODEL DESIGNATION	4. YR. MFR.	FAA CODING																																																																																																																																																																					
	N42NP	Pilatus Aircraft Ltd.	PC-12/47E	2019																																																																																																																																																																						
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	1905	Pratt & Whitney Canada	PT6A-67P																																																																																																																																																																							
	8. NUMBER OF ENGINES	9. PROPELLER BUILDER'S NAME (Make)	10. PROPELLER MODEL DESIGNATION	11. AIRCRAFT IS (Check if applicable)																																																																																																																																																																						
	1	Hartzell Propeller Inc.	HC-E5A-3A/NC10245B	<input checked="" type="checkbox"/> IMPORT																																																																																																																																																																						
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NAME Pilatus Business Aircraft Ltd.			IF DEALER, CHECK HERE <input type="checkbox"/>																																																																																																																																																																							
ADDRESS 12300 Pilatus Way Broomfield, CO 80021																																																																																																																																																																										
B. AIRCRAFT CERTIFICATION BASIS (Check applicable blocks and complete items as indicated)																																																																																																																																																																										
<input checked="" type="checkbox"/> AIRCRAFT SPECIFICATION OR TYPE CERTIFICATE DATA SHEET (Give No. and Revision No.) TC A78EU Rev. 27			<input checked="" type="checkbox"/> AIRWORTHINESS DIRECTIVES (Check if all applicable ADs are complied with and give the number of the last AD SUPPLEMENT available in the biweekly series as of the date of application) 2019-20																																																																																																																																																																							
AIRCRAFT LISTING (Give page number(s)) N/A			SUPPLEMENTAL TYPE CERTIFICATE (List number of each STC incorporated) N/A																																																																																																																																																																							
C. AIRCRAFT OPERATION AND MAINTENANCE RECORDS																																																																																																																																																																										
<input checked="" type="checkbox"/> CHECK IF RECORDS IN COMPLIANCE WITH 14 CFR section 91.417			TOTAL AIRFRAME HOURS 25.9		3 EXPERIMENTAL ONLY (Enter hours flown since last certificate issued or renewed)																																																																																																																																																																					
D. CERTIFICATION - I hereby certify that I am the registered owner (or his agent) of the aircraft described above, that the aircraft is registered with the Federal Aviation Administration in accordance with Title 49 of the United States Code 44101 et seq. and applicable Federal Aviation Regulations, and that the aircraft has been inspected and is airworthy and eligible for the airworthiness certificate requested.																																																																																																																																																																										
DATE OF APPLICATION 10/02/2019		NAME AND TITLE (Print or type) Sergio S. Robles QA Inspector		SIGNATURE 																																																																																																																																																																						
IV. INSPECTION AGENCY VERIFICATION																																																																																																																																																																										
A. THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY: (Complete the section only if 14 CFR part 21.183(d) applies)																																																																																																																																																																										
2	14 CFR part 121 CERTIFICATE HOLDER (Give Certificate No.)	3	CERTIFICATED MECHANIC (Give Certificate No.)	6	CERTIFICATED REPAIR STATION (Give Certificate No.)																																																																																																																																																																					
5	AIRCRAFT MANUFACTURER (Give name or firm)																																																																																																																																																																									
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V. FAA REPRESENTATIVE CERTIFICATION																																																																																																																																																																										
(Check ALL applicable block items A and B)																																																																																																																																																																										
A. I find that the aircraft described in Section I or VII meets requirements for				<input checked="" type="checkbox"/> THE CERTIFICATE REQUESTED																																																																																																																																																																						
				<input type="checkbox"/> AMENDMENT OR MODIFICATION OF CURRENT AIRWORTHINESS CERTIFICATE																																																																																																																																																																						
B. Inspection for a special flight permit under Section VII was conducted by:				FAA INSPECTOR																																																																																																																																																																						
				<input checked="" type="checkbox"/> FAA DESIGNEE																																																																																																																																																																						
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DATE	MIDO/FSDO OFFICE	FAA INSPECTOR'S SIGNATURE or DESIGNEE'S SIGNATURE AND NO. Keith R. Serkes 707546742		FAA INSPECTOR'S CERTIFICATION FILE REVIEW SIGNATURE																																																																																																																																																																						
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<b>VI. PRODUCTION FLIGHT TESTING</b>	A. MANUFACTURER				
	NAME		ADDRESS		
	B. PRODUCTION BASIS <i>(Check applicable item)</i>				
	<input type="checkbox"/> PRODUCTION CERTIFICATE <i>(Give production certificate number)</i> <input type="checkbox"/> TYPE CERTIFICATE <input type="checkbox"/> OTHER:				
	C. GIVE QUANTITY OF CERTIFICATES REQUIRED FOR OPERATING NEEDS				
	DATE OF APPLICATION		NAME AND TITLE <i>(Print or type)</i>		SIGNATURE
<b>VII. SPECIAL FLIGHT PERMIT PURPOSES OTHER THAN PRODUCTION FLIGHT TEST</b>	A. DESCRIPTION OF AIRCRAFT				
	REGISTERED OWNER			ADDRESS	
	BUILDER <i>(Make)</i>			MODEL	
	SERIAL NUMBER			REGISTRATION MARK	
	B. DESCRIPTION OF FLIGHT				
	FROM			TO	
	VIA			DEPARTURE DATE	DURATION
	C. CREW REQUIRED TO OPERATE THE AIRCRAFT AND ITS EQUIPMENT				
	<input type="checkbox"/> PILOT <input type="checkbox"/> CO-PILOT <input type="checkbox"/> FLIGHT ENGINEER <input type="checkbox"/> OTHER <i>(Specify)</i>				
	D. THE AIRCRAFT DOES NOT MEET THE APPLICABLE AIRWORTHINESS REQUIREMENTS AS FOLLOWS:				
	E. THE FOLLOWING RESTRICTIONS ARE CONSIDERED NECESSARY FOR SAFE OPERATION: <i>(Use attachment if necessary)</i>				
	F. CERTIFICATION - I hereby certify that I am the registered owner (or his agent) of the aircraft described above; that the aircraft is registered with the Federal Aviation Administration in accordance with Title 49 of the United States Code 44101 <u>et seq.</u> and applicable Federal Aviation Regulations; and that the aircraft has been inspected and is safe for the flight described.				
DATE		NAME AND TITLE <i>(Print or type)</i>		SIGNATURE	
<b>VIII. AIRWORTHINESS DOCUMENTATION (FAA/DESIGNEE use only)</b>	<input checked="" type="checkbox"/>	A. Operating Limitations and Markings in Compliance With 14 CFR Section 91.9, As Applicable			G. Statement of Conformity, FAA Form 8130-9 <i>(Attach when required)</i>
	<input type="checkbox"/>	B. Current Operating Limitations Attached			<input checked="" type="checkbox"/>
	<input type="checkbox"/>	C. Data, Drawings, Photographs, etc. <i>(Attach when required)</i>			H. Foreign Airworthiness Certification for Import Aircraft <i>(Attach when required)</i>
	<input checked="" type="checkbox"/>	D. Current Weight and Balance Information Available in Aircraft			I. Previous Airworthiness Certificate Issued in Accordance With 14 CFR Section _____ CAR _____ <i>(Original attached)</i>
	<input type="checkbox"/>	E. Major Repair and Alteration, FAA Form 337 <i>(Attach when required)</i>			<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>	F. This inspection Recorded in Aircraft Records			J. Current Airworthiness Certificate Issued in Accordance With 14 CFR Section 21.183 (c) <i>(Copy attached)</i>
			K. Light-Sport Aircraft Statement of Compliance, FAA Form 8130-15 <i>(Attach when required)</i>		

UNITED STATES OF AMERICA DEPARTMENT OF TRANSPORTATION-FEDERAL AVIATION ADMINISTRATION STANDARD AIRWORTHINESS CERTIFICATE			
1 NATIONALITY AND REGISTRATION MARKS N42NP	2 MANUFACTURER AND MODEL PILATUS AIRCRAFT LTD PC12/47	3 AIRCRAFT SERIAL NUMBER 1905	4 CATEGORY NORMAL
5 AUTHORITY AND BASIS FOR ISSUANCE This airworthiness certificate is issued pursuant to 49 U.S.C. § 44704 and certifies that, as of the date of issuance, this aircraft has been inspected and found to conform to its type certificate and be in a condition for safe operation. This aircraft meets the requirements of the applicable airworthiness standards in Annex 8 to the Convention on International Civil Aviation, except as follows:  <b>None.</b>			
6 TERMS AND CONDITIONS Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the FAA, this airworthiness certificate is effective as long as maintenance, preventative maintenance, and alterations are performed per the applicable Federal Aviation Regulations and the aircraft is registered in the United States.			
DATE OF ISSUANCE 02OCT2019	FAA REPRESENTATIVE <i>Keith R. Serkes</i> KEITH R. SERKES	DESIGNATION NUMBER 707546742	
Any alteration, misuse, or reproduction of this certificate for a fraudulent purpose may be punishable by certificate revocation, fine, and / or imprisonment. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT PER THE APPLICABLE FEDERAL AVIATION REGULATIONS.			
FAA Form 8100-2 (11-2016) Previous Edition Dated 04-11 May be Used Until Depleted			





Confédération suisse  
Confederazione Svizzera  
Confederaziun svizra

Swiss Confederation

Federal Office of Civil Aviation FOCA

## Export Certificate of Airworthiness

No. FQJ2020190924EX

This certificate certifies that the aircraft identified below and particularly described in Specification(s) of the European Aviation Safety Agency (EASA), Numbered EASA.A.089 has been examined and is considered airworthy in accordance with a comprehensive and detailed type certification basis established or recognised by EASA, and is in compliance with those special requirements of the importing state filed with Federal Office of Civil Aviation FOCA, except as noted below.

Note: This certificate does not attest cancellation of the aircraft registration from the Swiss Civil Aircraft Register.

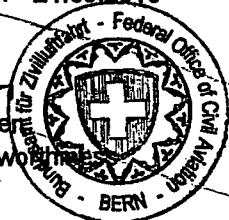
1. Aircraft: PC-12/47E	2. Engine Model: PT6A-67P
3. Manufacturer: PILATUS AIRCRAFT LTD.	4. Propeller Model: HC-E5A-3A/NC10245B
5. Manufacturer POA Number: CH.21G.0002	6. Attached EASA Form 52: AQ-19-1579
7. Serial Number: 1905	
8. New Aircraft: <input checked="" type="checkbox"/>	9. Used Aircraft: <input type="checkbox"/>
10. State to which exported: USA	
11. Remarks / Exceptions: none The PC-12/47E covered by this certificate conforms to the type design approved under U.S. Type Certificate Number A78EU, and is found to be in a condition for safe operation, and/or any other import requirements text as specified in the U.S. type certificate data sheet.	

For Federal Office of Civil Aviation

Date of issue: 24.09.2019

*R. Christen*

Roger Christen  
Inspector Airworthiness





# AIRCRAFT STATEMENT OF CONFORMITY

<b>1 STATE OF MANUFACTURE</b>  <div style="text-align: center;"><b>SWITZERLAND</b></div>	<b>2</b>  <div style="text-align: center;"><b>Federal Office of Civil Aviation Switzerland</b></div>	<b>3 STATEMENT REF NO</b>  <div style="text-align: center;">AQ-19-1579</div>								
<b>4 ORGANISATION</b>  <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  </div> <div> <b>PILATUS AIRCRAFT LTD</b>  CH-6371 STANS  SWITZERLAND  Tel: +41 41 619 61 11  www.pilatus-aircraft.com </div> </div>										
<b>5 AIRCRAFT TYPE</b>  <div style="text-align: center;">PC-12/47E</div>	<b>6 TYPE CERTIFICATE REFS:</b> <table style="width: 100%;"> <tr> <td style="width: 33%;">EASA.A.089</td> <td>issue March 28, 2008 (TC Home Country)</td> </tr> <tr> <td></td> <td>issue 07 (TCDS Home Country)</td> </tr> <tr> <td>FAA A78EU</td> <td>issue March 28, 2008 (TC Foreign Country)</td> </tr> <tr> <td></td> <td>issue 27 (TCDS Foreign Country)</td> </tr> </table>		EASA.A.089	issue March 28, 2008 (TC Home Country)		issue 07 (TCDS Home Country)	FAA A78EU	issue March 28, 2008 (TC Foreign Country)		issue 27 (TCDS Foreign Country)
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	issue 07 (TCDS Home Country)									
FAA A78EU	issue March 28, 2008 (TC Foreign Country)									
	issue 27 (TCDS Foreign Country)									
<b>7 AIRCRAFT REGISTRATION OR MARK</b>  <div style="text-align: center;">HB-FQJ</div>	<b>8 MANUFACTURERS IDENTIFICATIONS NO:</b>  <div style="text-align: center;">MSN 1905</div>									
<b>9 ENGINE / PROPELLER DETAILS *</b> <table style="width: 100%;"> <tr> <td style="width: 33%;">Engine: Pratt + Whitney Canada, PT6A-67P</td> <td>S/N: PCE-RY0985</td> </tr> <tr> <td>Propeller: Hartzell USA, HC-E5A-3A/NC10245B</td> <td>S/N: SA446</td> </tr> </table>			Engine: Pratt + Whitney Canada, PT6A-67P	S/N: PCE-RY0985	Propeller: Hartzell USA, HC-E5A-3A/NC10245B	S/N: SA446				
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<b>10 MODIFICATIONS AND / OR SERVICE BULLETINS *</b> Refer to Conformance Document AQ_CD_12										
<b>11 AIRWORTHINESS DIRECTIVES</b> Refer to Conformance Document AQ_CD_12										
<b>12 CONCESSIONS</b> Refer to Conformance Document AQ_CD_12										
<b>13 EXEMPTIONS, WAIVERS OR DEROGATIONS *</b> None										
<b>14 REMARKS</b>  <div style="text-align: center;">None</div>										
<b>15 CERTIFICATE OF AIRWORTHINESS</b> Certificate of Airworthiness										
<b>16 ADDITIONAL REQUIREMENTS</b> None										
<b>17 STATEMENT OF CONFORMITY</b>  It is hereby certified that this aircraft confirms fully to the type-certificated design and to the items above in boxes 9, 10, 11, 12 and 13. The aircraft is in a condition of safe operation. The aircraft has been satisfactorily tested in flight.										
<b>18 SIGNED</b>  <div style="display: flex; align-items: center;">  <div> Digital unterschrieben  von Geiser Daniel  Datum: 2019.09.24  09:27:24 +02'00' </div> </div>	<b>19 NAME</b>  <div style="text-align: center;">Daniel Geiser</div>	<b>20 DATE (DD MMM YYYY)</b>  <div style="text-align: center;">24 Sep 2019</div>								
<b>21 PRODUCTION ORGANISATION APPROVAL REFERENCE</b> <div style="text-align: center;">CH.21G.0002</div>										

\* Delete as applicable

