

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

Supplemental Type Certificate

IMPORT

Number ST03310NY

This certificate issued to Western Avionics
275 Palmer Road North East
Calgary, Alberta
Canada T2E 7G4

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 : A13NM

Make : Bombardier Inc

Model: DHC-8-101, DHC-8-102, DHC-8-103, DHC-8-106, DHC-8-201,
DHC-8-202, DHC-8-301, DHC-8-311, DHC-8-315

Description of Type Design Change:

1. Installation of a Universal UNS-1Ew Flight Management System to be accomplished in accordance with one or more of the following Transport Canada Civil Aviation (TCCA) approved Western Avionics Engineering Orders or later TCCA approved revision.
 - a. Dual Universal Avionics UNS-1Ew FMS Installation, Western Avionics Engineering Order 117366-401, revision 7 approved June 5, 2013.
 - b. Single Universal Avionics UNS-1Ew FMS Installation, Western Avionics Engineering Order 117366-402, revision 4 approved June 5, 2013.
 - c. Dual UNS-1C+/1E Upgrade to UNS-1Ew FMS Installation, Western Avionics Engineering Order 117366-403, revision 6 approved June 05, 2013.
 - d. Single UNS-1C+/1E Upgrade to UNS-1Ew FMS Installation, Western Avionics Engineering Order 117366-404, revision 4 approved June 5, 2013.

(See Description of Type Design Change continuation on page 3)

Limitations and conditions:

1. The aircraft must be operated in accordance with the "Limitation" section of one of the following TCCA approved Western Avionics Flight Manual Supplement;

(See Limitations and Conditions Continuation Sheet 3 of 3)

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 : October 18, 2011

Date reissued :

Date of issuance : July 8, 2013

Date amended :

By direction of the Administrator



(Signature)

Gaetano Sciortino
Manager
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 Issuance: July 8, 2013

Description of Type Design Change: (Continued)

- e. Symbol Generation Replacement, Western Avionics Engineering Order 117366-405, revision – approved September 6, 2010.
 - f. No. 2 UNS-1Ew FMS Activation from Single UNS-1Ew Configuration, Western Avionics Engineering Order 117366-406, revision 2 approved June 5, 2013.
 - g. GC-360A Radar Graphics Interface, Western Avionics Engineering Order 117366-407, revision 2 approved June 5, 2013.
2. Operation must be in accordance with one of the following TCCA approved Western Avionics Flight Manual Supplements, or later approved revisions:
- a. Single Universal Avionics UNS-1Ew FMS with LPV monitor (Electro-Mechanical HSI), Western Avionics Aircraft Flight Manual Supplement 117366-801, revision 1 approved May 17, 2013.
 - b. Single Universal Avionics UNS-1Ew FMS with LPV monitor (EFIS), Western Avionics Aircraft Flight Manual Supplement 117366-802, revision 1 approved May 17, 2013.
 - c. Dual Universal Avionics UNS-1Ew FMS (Electro Mechanical HSI), Western Avionics Aircraft Flight Manual Supplement 117366-803, revision 2 approved May 17, 2013.
 - d. Dual Universal Avionics UNS-1Ew FMS (EFIS), Western Avionics Aircraft Flight Manual Supplement 117366-804, revision 2 approved May 17, 2013.
3. Maintenance must be in accordance with one of the following TCCA accepted Western Avionics Maintenance Manual Supplement or later accepted revisions:
- a. Dual Universal Avionics UNS-1Ew FMS, Western Avionics Maintenance Manual Supplement 117366-701, revision 3 accepted June 18, 2012.
 - b. Single Universal Avionics UNS-1Ew FMS with LPV Monitor, Western Avionics Maintenance Manual Supplement 117366-702, revision 2 accepted June 18, 2012.

Limitations and conditions: (Continued)

- a. Single Universal Avionics UNS-1Ew FMS with LPV monitor (Electro Mechanical HSI), Western Avionics Aircraft Flight Manual Supplement 117366-801, revision 1 approved May 17, 2013.
 - b. Single Universal Avionics UNS-1Ew FMS with LPV monitor (EFIS), Western Avionics Aircraft Flight Manual Supplement 117366-802, revision 1 approved May 17, 2013.
 - c. Dual Universal Avionics UNS-1Ew FMS (Electro Mechanical HSI), Western Avionics Aircraft Flight Manual Supplement 117366-803, revision 2 approved May 17, 2013.
 - d. Dual Universal Avionics UNS-1Ew FMS (EFIS), Western Avionics Aircraft Flight Manual Supplement 117366-804, revision 2 approved May 17, 2013.
2. Antenna installations provided under Supplemental Type Certification ST01932NY, latest issue, are required.
3. The installer must determine whether this design change is compatible with previously approved modifications.
4. If the holder agrees to permit another person to use the certificate to alter the product, the holder must give the other person written evidence of that permission.

Certification Basis:

Based on 14 CFR §§ 21.115 and 21.101, and FAA order 8110.48, the certification basis for the Bombardier DHC-8-100, DHC-8-200, DHC-8-300 series is as shown on TCDS A13NM for parts changed or affected by the change. Based on 14 CFR § 21.101(g), applicable provisions of 14 CFR part 26 are included in the certification basis. For any future 14 CFR part 26 amendments, the holder of this STC must demonstrate compliance with the applicable sections. As of the issuance date of this STC, compliance has been found for the following regulations 14 CFR § 26.11, (Amdt. NO. 26-0)

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