

United States Of America
Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

Project Number ST9114SC-T RMR

Number ST10977SC

This Certificate issued to NEW SYSTEMS
1201 N. Industrial Blvd.
Round Rock, TX 78681

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

Original Product Type Certificate Number : A13NM
Make : Bombardier
Model : DHC-8-100 Series, DHC-8-200 Series,
DHC-8-300 Series

Description of Type Design Change: Installation of Dual Universal Avionics Flight Management Systems (FMS) with Global Positioning System (GPS) in accordance with New Systems Master Drawing List #379-00-0001, dated 7/20/2010, or later approved FAA revision. Airplane Flight Manual Supplement document #379-02-0004, Revision IR, dated 6/1/2010, or later FAA approved revision is required.

Limitations and Conditions: The installer must determine whether this design change is compatible with previously approved modifications. 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.

(See continuation sheet 3 of 4)

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 : April 06, 2009

Date reissued :

Date of issuance : July 27, 2010

Date amended : June 21, 2011



By direction of the Administrator

(Signature)

S. Frances Cox
Manager, Special Certification Office
Southwest Region

(Title)

United States Of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate
(Continuation Sheet)

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Limitations and Conditions (Continued):

Certification Basis: Based on 14 CFR §§ 21.115 and 21.101(b)(1), and FAA Order 8110.48, the certification basis for the Bombardier DHC-8-100, -200, -300 modified by Installation and Certification of Dual Independent Universal Avionics Flight Management Systems with GPS is as follows:

- a. The type certification basis for Bombardier DHC-8-100, -200, -300 airplanes is shown on TCDS A13NM for parts not changed or not affected by the change.
- b. The certification basis for parts changed or affected by the change since the reference date of applications, April 6, 2009, is based upon part 25 amendment level as noted below.

Part 25, Subpart B – Flight

25.29 (a), (b) Amdt 25-42

Part 25, Subpart C – Structure

25.301(a), (b), (c) Amdt 25-23
25.303 Amdt 25-23
25.305 (a), (b), (c) Amdt 25-23
25.307 (a) Amdt 25-72
25.321(a), (b) Amdt 25-23
25.331 (a), (b),(c) Amdt 25-91
25.333 (a), (b) Amdt 0
25.335 Amdt 25-23
25.337 (a), (b), (c), (d) Amdt 25-23
25.341(a), (b), (c) Amdt 0
25.351(a) Amdt 25-23
25.365(a), (b), (c), (d), (e), (f) Amdt 25-87
25.471 (a), (b) Amdt 25-23
25.561 (a), (b), (c) Amdt 25-23
25.571 (a), (b), (c) Amdt 25.72
25.581 (a), (b) (1) Amdt 25-23

Part 25, Subpart D – Design and Construction

25.601 Amdt 0
25.603 (a), (b), (c) Amdt 25-46
25.605 (a) Amdt 25-46
25.607 (a), (b), (c) Amdt 25-23
25.609 (a), (b) Amdt 0
25.611 Amdt 25-23
25.613 (a), (b), (c), (e), (f) Amdt 25-112
25.771(a) Amdt 25-4
25.773 (a)(2) Amdt 25-121

United States Of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate
(Continuation Sheet)

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Limitations and Conditions (Continued):

Part 25, Subpart E - Powerplant
25.981(a)(3)

Amdt 25-102

Part 25, Subpart F - Equipment

25.1301 (a), (b), (c), (d)

Amdt 0

25.1307 (c), (e)

Amdt 25-72

25.1309(a),(b),(c),(d),(e)(1),(2) and (3),(i),(f),(g)

Amdt 25-41

25.1310 (a), (b)

Amdt 25-123

25.1316 (b)

Amdt 25-80

25.1321(a), (b),(c),(d)

Amdt 25-41

25.1322 (a), (b), (c), (d)

Amdt 25-38

25.1327(a), (b)

Amdt 0

25.1329(i)

Amdt 25-119

25.1335

Amdt 25-41

25.1351 (a)(1), (a)(2)

Amdt 25-72

25.1353 (a), (b)

Amdt 25-42

25.1355 (c)

Amdt 25-38

25.1357 (a), (c), (d), (e)

Amdt 25-42

25.1381 (a), (b)

Amdt 0

25.1431 (a), (b), (c)

Amdt 0

Part 25, Subpart G – Operating Limitations and Information

25.1501 (a)

Amdt 25-42

25.1525

Amdt 0

25.1529

Amdt 25-54

25.1541

Amdt 0

25.1547(a), (b), (c), (d)

Amdt 0

25.1581

Amdt 25-72

25.1583

Amdt 25-38

25.1585

Amdt 25-105

Appendix H to Part 25

Amdt 25-123

Part 26

26.11 (c)

Amdt 26-0

-End-