

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

Number ST03224NY

This certificate issued to Design and Maintenance Analysis, Inc
7519 Rivershore Drive
Seaford, DE 19973

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
Model: DHC-8-300

Description of Type Design Change:

Replacement of existing flight data recording systems with new Mini Flight Data Acquisition Unit (MFDAU) and Flight Data Recorder, sensors and wiring capable of recording 57 parameters on Bombardier DHC-8-300 Series aircraft in accordance with DMA Inc Master Drawing List MDL 2012-04 Rev C dated September 26, 2012. Instructions for Continued Airworthiness, DMA Inc Document Number ER 2012-022, Revision IR, dated August 7, 2012 must be made available to the operator at the time of installation.

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.

(See 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: January 10, 2012

Date reissued: February 28, 2013

Date of issuance: December 12, 2012

Date amended:

By direction of the Administrator



(Signature)

Gaetano Sciortino
Manager
New York Aircraft Certification Office

(Title)

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(Continuation Sheet)

Number **ST03224NY**

Date re-issued: February 28, 2013

Certification Basis: (continued)

Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for the Bombardier DHC-8-300 series aircraft is as follows:

- a. The type certification basis for Bombardier DHC-8-300 series 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 application, January 10, 2012, is based upon part 25 as amended by Amendment 25-134. Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for this modification was determined to be:

Regulations at the latest amendment 25-0 through 25-134:

25.1307 25.1431

Regulations at an intermediate amendment:

25.869 Amendment 25-72
25.981 Amendment 25-102
25.1353 Amendment 25-113

Regulations at the amendment level in TCDS A13NM:

25.301 25.303 25.305 25.307 25.561 25.601 25.603 25.605 25.609 25.611
25.613 25.615 25.619 25.625 25.789 25.1301 25.1309 25.1357 25.1459 25.1541

Base on 14CFR 21.101(g), applicable provisions of 14CFR part 26 are included in the certification basis. As of the issuance date of this STC, compliance has been found for the following regulation 14CFR 26.11, (Amdt. No. 26-0).

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