

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

Number **ST01902NY**

This certificate issued to

Delta Engineering Corporation
13 DRBA Way
New Castle County Airport
New Castle, DE 19720

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: A43NM
Make: Airbus Industrie
Model: A340-311, 312, 313, 642 Series

Description of Type Design Change:

Configuration 1 (A340-642): Update of existing Astronics, Em-Power ® In-Seat Power Supply System in accordance with Delta Engineering Master Drawing List 0152-05341-2069, Revision C, dated May 10, 2004.

Configuration 2 (A340-311/ 312/ 313): Update of existing Astronics, Em-Power ® In-Seat Power Supply System in accordance with Delta Engineering Master Drawing List 0152-05341-2069, Revision E, dated July 30, 2005.

Limitations and Conditions:

Configuration 1 (The installation of this configuration is limited to aircraft model A340-642 only):

1. The cabin configuration of the Upper Class seats installed in accordance with Virgin Atlantic LOPA Drawing MF410-252000, Issue D, is required for the installation of this STC. The seats and their installation per Virgin Atlantic LOPA Drawing MF410-252000, Revision D, have not been approved as part of this STC.
2. Delta Engineering Maintenance Manual Supplement (Instructions for Continued Airworthiness) document number 0752-05344-2069, Revision -, dated April 15, 2004 is required with this installation.

(See Continuation Sheet 2 of 2)

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.

Number **ST01902NY**

Date of Amendment: September 09,2005.

Date of application : September 08, 2003

Date reissued :

Date of issuance: May 26, 2004

Date amended : September 09, 2005



By direction of the Administrator

(Signature)

Michele J. Maurer
Acting Manager,
New York Aircraft Certification Office

(Title)

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(Continuation Sheet)

Limitations and Conditions (Continued):

Configuration 2 (The installation of this configuration is limited to aircraft models A340-311/ 312/ 313 only):

3. The cabin configuration of the Upper Class seats installed in accordance with Virgin Atlantic LOPA Drawing MF418-252180, Issue E, is required for the installation of this STC. The seats and their installation per Virgin Atlantic LOPA Drawing MF418-252180, Revision E, have not been approved as part of this STC.
4. Delta Engineering Maintenance Manual Supplement (Instructions for Continued Airworthiness) document number 0752-05557-2068, Revision A, dated July 15, 2005 is required with this installation.

Configuration 1& 2 (A340-642, A340-311/ 312/ 313):

5. If the holder agrees to permit another person to use the certificate to alter the product, the holder shall give the other person written evidence of that permission.
6. Compatibility of this design change with previously approved modifications must be determined by the installer.

Certification Basis:

Based on Title 14 CFR §§ 21.115 and 21.101, the certification basis for the Airbus Industries A340-311/312/313, A340-642 aircraft with the Panasonic Avionics passenger entertainment system is as follows:

- a. The type certification basis for the Airbus Industries A340-311/312/313, A340-642 airplane is as shown on the TCDS A43NM for parts not listed in item b, below.
- b. Certification basis for this alteration is Title 14 CFR Part 25 including amendments 25-1 through 25-117 for the following:
 - i. 25.853, 25.869, 25.1301, 25.1307, 25.1309, 25.1351, 25.1353, 25.1355, 25.1357, 25.1431

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