

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

*Number* **ST01896NY**

*This certificate issued to*

Delta Engineering Corp.  
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

*Description of Type Design Change:*

Configuration 1 (A340-642): Update the existing Panasonic Avionics Passenger Entertainment System in accordance with Delta Engineering Master Data List 0152-05298-2068, Revision C, dated Jul. 28, 2005.

Configuration 2 (A340-311/312/313): Update the existing Panasonic Avionics Passenger Entertainment System in accordance with Delta Engineering Master Data List 0152-05552-2068, Revision A, dated Jul. 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 this installation of this STC. The seats and their installation per Virgin Atlantic LOPA Drawing MF410-252000, Issue D, have not been approved as part of this STC.
2. Delta Engineering Maintenance Manual Supplement (Instructions for Continued Airworthiness) document number 0752-05302-2068, 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.*

*Date of application:* August 22, 2003

*Date reissued:*

*Date of issuance:* May 18, 2004

*Date amended:* October 11, 2005



*By direction of the Administrator*

(Signature)

Anthony Socias  
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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(Continuation Sheet)

*Number* **ST01896NY**

Date of Amendment: October 11, 2005

*Limitations and Conditions* (Continued):

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

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

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

3. 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.
4. Compatibility of this design change with previously approved modifications must be determined by the installer.

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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