

BR
DAS 2181-02

Supplemental Type Certificate

Number ST02215NY-D

This certificate, issued to Delta Engineering
13 DRBA Way
New Castle County Airport
New Castle, Delaware 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: A20WE
Make: Boeing
Model: 747-400 Series

Description of Type Design Change:

Installation of Panasonic Avionics Corporation System 3000i in accordance with Delta Engineering Master Data List 0107-05809-2121 Revision A dated Nov. 15, 2006 or later DAS Approved.

Limitations and Conditions:

1. Delta Engineering Instructions for Continued Airworthiness 0707-05814-2121 Revision A dated Aug. 31, 2006 is required with this installation.
2. 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.

(See Continuation Sheet 2)

This certificate and the supporting data which is the basis for approval shall remain in effect surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: July 5, 2006

Date reissued:

Date of issuance: August 22, 2006

Date amended: November 17, 2006



By direction of the Administrator

John A. Moritz
John A. Moritz
DAS Administrator

Delta Engineering, DAS-800728-NE
(Title)

Any Alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21.47

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

Number ST02215NY-D

Date of issuance: August 22, 2006

Limitations and Conditions (continued):

3. Compatibility of this design change with previously approved modifications must be determined by the installer.
4. The cabin configuration of the seats installed in accordance with KLM LOPA KLM3H112780 Revision ORG, is required for this installation of this STC. The seats and their installation per KLM LOPA KLM3H112780 Revision ORG, have not been approved as part of this STC.
5. Boeing Service Bulletins 747-53-2631 and 747-25-3449 must be installed prior to the installation of this STC.

Certification Basis:

Based on Title 14 CFR §§ 21.115 and 21.101, the certification basis for the Boeing 747-400 Series aircraft with the Panasonic IFE is as follows:

- a. Listed sections are pertaining to Title 14 Code of Federal Regulations.
- b. The type certification basis for the Boeing 747-400 Series aircraft is as shown on the TCDS A20WE except the following:

| Section | Title | At Amendment |
|----------|------------------------------------------|--------------|
| §25.831 | Ventilation | 25-89 |
| §25.853 | Compartment interiors | 25-116 |
| §25.869 | Fire protection: systems | 25-113 |
| §25.981 | Fuel tank temperature | 25-102 |
| §25.1307 | Miscellaneous equipment | 25-72 |
| §25.1351 | General | 25-72 |
| §25.1353 | Electrical equipment and installations | 25-113 |
| §25.1431 | Electronic equipment | 25-113 |
| §25.1529 | Instructions for Continued Airworthiness | 25-54 |

=====END=====

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This certificate may be transferred in accordance with FAR 21.47