

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

DAS-2090-02

BL

Number ST02077NY-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:

Configuration 1 & 2:

Installation of Panasonic Avionics Corporation System 3000i Entertainment System in accordance with Delta Engineering Master Data List 0107-05438-2080 Revision E dated June 20, 2006 or later DAS Approved.

Limitations and Conditions:

Configuration 1:

1. FAA STC ST01519SE is required to be installed as a prerequisite for accomplishing this STC.
2. The aircraft must be maintained in accordance with Delta Engineering Instructions for Continued Airworthiness document 0707-05445-2080 Revision - dated Apr. 19, 2005.
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.

(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: August 20, 2004

Date reissued:

Date of issuance: May 2, 2005

Date amended: June 22, 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

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(Continuation Sheet)

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Date of issuance: May 2, 2005

Limitations and Conditions (continued):

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

Configuration 2:

1. FAA STC ST01519SE is required to be installed as a prerequisite for accomplishing this STC.
2. The aircraft must be maintained in accordance with Delta Engineering Instructions for Continued Airworthiness document 0707-05776-2080 Revision - dated June 14, 2006.
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.

Certification Basis:

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

- a. The type certification basis for the Boeing, 747-400 airplane is as shown on the TCDS.

=====END=====

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