



United States of America
 Department of Transportation
 Federal Aviation Administration
Supplemental Type Certificate
 Number ST02888NY

This certificate, issued to: Delta Engineering Corporation
 13 DRBA Way
 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: T00001SE Make: Boeing
 Model: 777-300ER Series

Description of Type Design Change:

Installation of a Panasonic Avionics Corporation Global Communications Suite (GCS) in accordance with Delta Engineering Master Data List 0143-07446-2286 Revision E dated Dec. 29, 2014 or later FAA approved revisions to Delta Engineering Master Data List previously listed. The Instructions for Continued Airworthiness and Airplane Flight Manual Supplement as listed on the Master Data List is required with this installation.

Limitations and Conditions:

1. 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.
2. Compatibility of this design change with previously approved modifications must be determined by the installer.

(See Continuation Sheet 3)

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

| | | | |
|----------------------|--------------------|----------------|---|
| Date of Application: | August 1, 2011 | Date reissued: | January 15, 2015 |
| Date of issuance: | September 28, 2011 | Date amended: | November 21, 2012, December 31, 2014 |

By direction of the Administrator

Signature: _____
Title: Jonathan E. Moritz
 ODA Administrator
 ODA-800728-NE

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 or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).



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INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Aircraft Certification Office of the transfer of this Supplement Type Certificate. The FAA will reissue the certificate in the name of the transferee and forward it to him.

Transfer Endorsement

Transfer the ownership of Supplement Type Certificate Number:

To (Name and address of transferee):

From (Name and address of grantor):

Extent of Authority (if licensing agreement):

Date of transfer:

Signature of grantor: _____

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(Continuation Sheet)

Number ST02888NY

Date January 15, 2015

Limitations and Conditions:

3. Operational approval to use T-PED's must be obtained separately from this STC.
4. FAA STC ST03048CH (T-PED) is required with this STC.
 - a. When installing/activating the GCS on the aircraft the aircraft must comply with the requirements of the above mentioned FAA STC including but not limited to aircraft systems compatibility with RF (Radio Frequencies) effects from T-PED's (Transmitting Portable Electronic Devices).
 - b. No design changes to required aircraft systems may be made without considering the RF (Radio Frequencies) effects from T-PED's (Transmitting Portable Electronic Devices) to the aircraft system per the above mentioned FAA STC or other approved method.
5. For configuration TL10672-01 requires existing Boeing installed eXPhone E18 rack.

Certification Basis:

Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, this STC is a non-significant change. The certification basis for un-changed or not affected areas by this STC remains un-changed by this STC and the certification basis for this STC is as follows:

- a. FAA Alternate Means of Compliance 140S-14-89
- b. The following regulations for CFR Part 25 at later amendment than the TCDS all other regulations at certification basis defined in the TCDS:

| Section | Title | At Amendment |
|----------|--|--------------|
| §25.1353 | Electrical equipment and installations | 25-113 |
| §25.1431 | Electronic equipment | 25-113 |
| §25.1583 | Operating limitations | 25-105 |
| §25.1585 | Operating procedures | 25-105 |

c. CFR Part 26:

- a. The design change does not impact existing Electrical Wiring Interconnect System Source Document.

| Section | Title | At Amendment |
|---------|-------|--------------|
| §26.11 | EWIS | 26-0 |
| §26.47 | AASR | 26-1 |

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