

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

Number ST03341CH

This certificate issued to Electronic Cable Specialists, Inc.
5300 W. Franklin Drive
Franklin, WI 53132

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. See Page 3 of 3 for complete certification basis.

Original Product -- Type Certificate Number: A20WE
Make: Boeing
Model: 747-400 Series; 747-400F Series;

Description of Type Design Change:

Installation of a Class 2 Electronic Flight Bag (EFB) System Provisions in accordance with Electronic Cable Specialists Master Data List ECS-209939, Revision E, dated March 31, 2014, or later FAA approved revision.

Limitations and Conditions:

- 1) Compatibility of this design change with previously approved modifications must be determined by the installer.
- 2) If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.
- 3) The Airplane Flight Manual Supplement as listed in Appendix A of Electronic Cable Specialists Master Data List, ECS-209939, Revision E, dated March 31, 2014, or later FAA approved revision, is required on board the modified aircraft.
- 4) The equipment for which these provisions are intended has not been certified. Additional FAA approval is required for the installation of this equipment and must be evaluated to assure satisfactory compliance with applicable airworthiness standards.

(Limitations and Conditions continued on Page 3 of 3.)

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: January 29, 2014

Date reissued:

Date of issuance: June 12, 2014

Date amended:



By direction of the Administrator

(Signature)

Steven L. Lardinois
Manager, Systems and Flight Test Branch
Chicago 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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Supplemental Type Certificate
(Continuation Sheet)

Number ST03341CH

Date of issuance: June 12, 2014

Certification Basis:

The certification basis for the changed Boeing 747-400 Series; 747-400F Series as described in this certificate is as follows:

- a. The type certification basis for the Boeing 747-400 Series; 747-400F Series is shown on TCDS A20WE for parts not changed or not affected by this change.
- b. The certification basis for the parts changed or affected by this change since the reference date of application, January 29, 2014, is shown on TCDS A20WE. In addition, the applicant has complied with 14 CFR Part 25 as amended by Amendment 25-102 and 14 CFR Part 26 as amended by Amendment 26-1. The certification basis for this modification was determined to be:

Regulations at the latest amendment 25-0 through 25-105

25.29(b); 25.301(a),(b); 25.303; 25.305(a), (b); 25.307(a); 25.561(c); 25.601; 25.603; 25.605(a); 25.607; 25.609; 25.611; 25.613(a); 25.619; 25.625(a); 25.771(a); 25.773(a)(1)(2); 25.777(a); 25.785(c)(1)(e); 25.789(a); 25.853(a); 25.869(a)(4); 25.981(a)(3); 25.1301; 25.1309(a), (b), (c), (d), (e), (g); 25.1322; 25.1333(c); 25.1351(a); 25.1353(a)(b); 25.1357(a)(c); 25.1381(a); 25.1431; 25.1529; 25.1541(a), (b); 25.1555(a); 25.1581(a), (b); 25.1585(a).

Regulations at the latest amendment 26-0 through 26-1

26.11(c); 26.47(a),(c),(d) This modification does not affect or create fatigue critical structure.

Limitations and Conditions: (continued)

- 5) In accordance with FAA Seattle Aircraft Certification Office dated August 3, 2011 [Refer to: 140S-11-202c], this modification is FAA approved as an Alternative Method of Compliance (AMOC) to the requirements of paragraph (g)(3) of Airworthiness Directive (AD) 2008-10-06 R1.
- 6) For Airworthiness Limitations, refer to Section 4 of Document No. ECS-209958, Revision C, approved (dated June 12, 2014), or later FAA approved revision.

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