

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

Number ST00300BO

This Certificate issued to Ases LLC
6015 S. Portland Avenue
Oklahoma City, OK 73159

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 : 777-200/200LR/300/300ER Series

Description of Type Design Change:

Installation of an Electronic Flight Bag (EFB) system installed per Master Drawing List 4612-B49-MDL Revision C dated April 8, 2010 or later FAA approved revision.

Limitations and Conditions :

(See continuation sheet 3 of 4)

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 : April 16, 2009

Date reissued : December 12, 2012

Date of issuance : April 12, 2010

Date amended :



By direction of the Administrator

(Signature)
S. Frances Cox, Manager
Special Certification Office,
Southwest Region

(Title)

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(Continuation Sheet)

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Date of Issuance: April 12, 2010
Reissuance Date: December 12, 2012

Description of Type Design Change (Continued):

1. L2 Consulting Services, Inc., Flight Manual Supplement No. 4612-B49-AFM for Boeing Model 777-200/-200LR/-300/-300ER aircraft, revision A, approved April 12, 2010 or later FAA approved revision.
2. Instructions for Continued Airworthiness (ICA), L2 Consulting Services, Inc., No. 4612-B49-ICA, Revision C, dated February 17, 2010 or later FAA accepted revision shall be made available to the operator at the time of installation.
3. The following limitations are required on the ICG e-switch which is to be used as part of this installation:
 - a. The e-switch may not be used for applications which depend on Power over Ethernet (PoE).
4. This modification may not be installed after August 30, 2010 unless:
 - a. Previously approved electrical wiring interconnection system EWIS instructions for continued airworthiness (ICA) have been evaluated and determined to be adequate for this installation by the FAA, or
 - b. Revised EWIS ICA has been approved by the FAA Oversight Office.
(Refer to 14 CFR §26.11),
5. The installer must determine whether this design change is compatible with previously approved modifications. If the holder agrees to permit another person to use this certificate to alter a product, the holder must give the other person written evidence of that permission.

Certification Basis:

Based on 14 CFR Part 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for the Boeing 777 A/C system is as follows:

- a. The type certification basis for the Boeing Model 777 airplanes is shown on the TCDS T00001SE for parts **not changed** or **not affected** by the change.
- b. The certification basis for parts **changed** or **affected** by the change since the reference date of application, April 16, 2009, is based upon part 25 as amended by Amendment 25-129 and 14 CFR part 26.

Based on 14 CFR §§21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for this modification was determined to be:

Regulations at the latest amendment 25-0 through 25-129

25.305(a)(b), 25.335(a)(b), 25.341(c), 25.561, 25.613(a)(b)(c),
25.785(d2)(g)(1), 25.853(a), 25.981(a)(b), 25.1357(a)(c)(e),
25.1431(a)(b)(c)(d)

Regulations at an intermediate amendment

25.869(a,4) 25-113, 25.1353(a)(b)(c) 25-113

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Date of Issuance: April 12, 2010
Reissuance Date: December 12, 2012

Certification Basis(Continued):

Regulations at the amendment level in TCDS T00001SE

Model 200

25.23(a), 25.25(a), 25.27, 25.29(a), 25.301, 25.303, 25.307(a), 25.601, 25.603, 25.605(a), 25.609(a), 25.611, 25.625(a), 25.771(a), 25.773(a), 25.789(a), 25.863, 25.1301(a)(b)(c)(d), 25.1307(c), 25.1309(b)(c)(d)(e,1), 25.1316(b)(c), 25.1322(b)(c), 25.1351(a), 25.1355(a)(c)(e), 25.1381(a)(b), 25.1519, 25.1529, 25.1541(b), 25.1555, 25.1581, 25.1583, 25.1585

Model 300

25.23(a), 25.25(a), 25.27, 25.29(a), 25.301, 25.303, 25.307(a), 25.601, 25.603, 25.605(a), 25.609(a), 25.611, 25.625(a), 25.771(a), 25.773(a), 25.789(a), 25.863, 25.1301(a)(b)(c)(d), 25.1307(c), 25.1309(b)(c)(d)(e,1), 25.1316(b)(c), 25.1322(b)(c), 25.1351(a), 25.1355(a)(c)(e), 25.1381(a)(b), 25.1519, 25.1529, 25.1541(b), 25.1555, 25.1581, 25.1583, 25.1585

Model 300ER

25.23(a), 25.25(a), 25.27, 25.29(a), 25.301, 25.303, 25.307(a), 25.601, 25.603, 25.605(a), 25.609(a), 25.611, 25.625(a), 25.771(a), 25.773(a), 25.789(a), 25.863, 25.1301(a)(b)(c)(d), 25.1307(c), 25.1309(b)(c)(d)(e,1), 25.1316(b)(c), 25.1322(b)(c), 25.1351(a), 25.1355(a)(c)(e), 25.1381(a)(b), 25.1519, 25.1529, 25.1541(b), 25.1555, 25.1581, 25.1583, 25.1585

Model 200LR

25.23(a), 25.25(a), 25.27, 25.29(a), 25.301, 25.303, 25.307(a), 25.601, 25.603, 25.605(a), 25.609(a), 25.611, 25.625(a), 25.771(a), 25.773(a), 25.789(a), 25.863, 25.1301(a)(b)(c)(d), 25.1307(c), 25.1309(b)(c)(d)(e,1), 25.1316(b)(c), 25.1322(b)(c), 25.1351(a)(b)(c), 25.1355(a)(c)(e), 25.1381(a)(b), 25.1519, 25.1529, 25.1541(b), 25.1555, 25.1581, 25.1583, 25.1585

14 CFR Part 26 regulations

Based on 14 CFR §21.101(g), applicable provisions of 14 CFR part 26 are included in the certification basis. For any future 14 CFR part 26 amendments, the holder of this STC must demonstrate compliance with the applicable sections. As of the issuance date of this STC, compliance has been found for the following regulations 14 CFR §§26.11 and 26.47, (Amdt. No. 26-0, through 26-1).

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