

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

Number ST02182LA

This Certificate issued to **Rockwell Collins, Inc.**
400 Collins Road NE, MS 164-100
Cedar Rapids, IA 52498

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. *Certification basis set forth on continuation sheet 3.*

Original Product Type Certificate Number: A20WE

Make Boeing

Model 747-400 Series

Description of Type Design Change: Installation of Rockwell Collins SAT-906 Aero H+ SATCOM System, with CMC Electronics CMA-2102 High Gain Antenna and International Communications Group AEROCOM 3000 Cabin Telecommunications Unit in accordance with Hollingsead International Master Data List 3017-01 Revision NC dated January 12, 2009, or later FAA approved revision.

FAA Approved Flight Manual Supplement Document Number 3017-AFM Revision NC dated January 12, 2009, or later FAA approved revision is required.

Limitations and Conditions: This modification may not be installed after August 30, 2010 unless (1) 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 (2) revised EWIS ICA have been approved by the Wichita Aircraft Certification Office. (Refer to § 26.11) This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated, unless it is determined by the installer that the interrelationship between this change and any of those previously approved modifications will not introduce any adverse effect upon the airworthiness of that aircraft.

Limitations and Conditions continued on Sheet 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: July 3, 2008

Date reissued: May 22, 2009

Date of issuance: January 15, 2009

Date amended:



By direction of the Administrator

S. Larry Asher
(Signature)

for Supervisor, Technical & Administrative Support Staff Branch

Los Angeles 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.

INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Regional Office of the transfer of this Supplemental 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 Supplemental Type Certificate Number _____

to *(Name of transferee)* _____

(Address of transferee) _____
(Number and street)

(City, State, and ZIP Code)

from *(Name of grantor) (Print or type)* _____

(Address of grantor) _____
(Number and street)

(City, State, and ZIP Code)

Extent of Authority (if licensing agreement): _____

Date of Transfer: _____

Signature of grantor *(In ink)*: _____

Supplemental Type Certificate

(Continuation Sheet)

Number ST02182LA

Certification Basis:

Based on 14 CFR part 21 §§ 21.115 and 21.101, for non-significant change to type design, the certification basis elected by the STC holder for the installation of the Rockwell Collins SAT-906 SATCOM system on the Boeing 747-400 Series is as follows:

- a. The type certification basis for the Boeing 747-400 Series airplanes is shown on TCDS A20WE for parts **not changed or not affected** by the change.
- b. The certification basis for parts **changed or affected** by this change since the reference date of application, July 3, 2008, is based upon part 25 as amended by Amendment 25-113 and part 26 as amended by Amendment 26-1. Based on 14 CFR §§ 21.115 and 21.101, the certification basis for this modification was elected to be:

Regulations at the latest amendment 25-0 through 25-113 and 26-0 through 26-1

25.23(b), 25.29(b), 25.111(c)(3), 25.119, 25.121, 25.123, 25.251(b)(d), 25.301, 25.303, 25.305(a)(b), 25.307(a), 25.561(a)(b)(c), 25.571(a)(b), 25.601, 25.603, 25.605, 25.609(a), 25.611, 25.613, 25.619, 25.623, 25.625(a)(b)(c), 25.789(a), 25.853(a), 25.869(a)(4), 25.1301, 25.1307(c)(d), 25.1309, 25.1316, 25.1322, 25.1351(a), 25.1353(a)(b)(d), 25.1355(a)(c), 25.1357(a)(c)(d)(e), 25.1419(a), 25.1431, 25.1457(a)(1), 25.1529, 25.1541, 25.1581, 25.1585(a), 25.1587(b)(3), Appendix F and 26.47(c).

Regulations at the amendment level in TCDS A20WE

25.23(b), 25.123, 25.301, 25.303, 25.601, 25.603, 25.605, 25.609(a), 25.611, 25.619, 25.623, 25.789(a), 25.1301, 25.1309, 25.1322, 25.1355(a)(c), 25.1357(a)(c)(d)(e), 25.1529, 25.1541

Limitations and Conditions (Continued)

This approval is limited to airplanes on which electrical and structural provisions consisting of the E42 Equipment Rack and antenna provisions for a high gain SATCOM system have been installed by The Boeing Company. This approval is limited to airplanes with Maximum Gross Takeoff Weight of 869,858 lbs. A copy of this STC must be included in the permanent record of the modified aircraft. 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.

Note 1. This installation has been determined to be a 'no acoustical change' as defined in 14 CFR 21.93(b).

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