

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

Number
ST10404SC-D

This certificate, issued to
The Boeing Company, Wichita Division
P. O. Box 7730
Wichita, Kansas 67277-7730

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 2 of 2 Continuation Sheet)

Original Product--Type Certificate Number: A20WE
Make : Boeing
Model : 747-200B (E-4A, E-4B)

Description of Type Design Change: Installation of Audio Infrastructure Upgrade (AIU) [Updated Communication Control Stations, Mission Interphone Replacement with Multi-Conferencing, Automatic Switching, Secure and Non-Secure Communication, Laptop Modem Jacks, New Rack Enclosures, Audio Recording System, New Un-Interruptible Power Supply System] in accordance with Boeing Master Data List D226-38391-1, Revision G, dated April 22, 2005, and Boeing Document D3-8857, Section V, Appendix 101, Revision HG; or later FAA approved revisions.

Limitations and Conditions: (See Page 2 of 2 Continuation Sheet)

1. This approval should not be incorporated in any aircraft of this specific model on which other approved modifications are incorporated, unless it is determined that the interrelationship between this change and any of those previously incorporated approved modifications will not introduce any adverse effect upon the airworthiness of the airplane.

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 24, 2001

Date reissued : January 25, 2006

Date of issuance : April 27, 2005

Date amended : April 17, 2006

By direction of the Administrator

(Signature on File)

(Signature)

JR Brownell

DAS-501296-CE Administrator

(Title)



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Part 25 of the Federal Aviation Regulations: (Continued)

1. As defined in Type Certificate Data Sheet No. A20WE, Revision 35, starting on Page 11.
2. Voluntary compliance has been found relative to the following regulations:
 - a. Amendment 25-23, effective May 8, 1970 [25.301(a)(b)(c); 25.303; 25.471; 25.607; 25.611; 25.619]
 - b. Amendment 25-32, effective May 1, 1972 [25.853(a)(b); 25.1359(a)(b)]
 - c. Amendment 25-41, effective September 1, 1977 [25.1309(a)(b)(c)(d)(e)(g)]
 - d. Amendment 25-42, effective March 1, 1978 [25.1353(a)(b)]
 - e. Amendment 25-46, effective December 1, 1978 [25.603; 25.605; 25.787(a)(b); 25.789(a)]
 - f. Amendment 25-54, effective October 14, 1988 [25.365(a)(d)(e)(g); 25.571(a)(c); 25.1529]
 - g. Amendment 25-72, effective August 20, 1990 [25.21(a)(d); 25.29; 25.307(a)(d); 25.625; 25.869(a); 25.1307(c); 25.1351(a); 25.1381(a)(b)]
 - h. Amendment 25-80, effective May 31, 1994 [25.1316]
 - i. Amendment 25-86, effective March 11, 1996 [25.305(a)(b)]
 - j. Amendment 25-91, effective July 29, 1997 [25.561(a)(b3)(c)(d)]
 - k. Amendment 25-102, effective June 6, 2001 [25.981]
 - l. Amendment 25-105, effective July 26, 2001 [25.1583(c1)(c2)]
 - m. Amendment 25-112, effective September 4, 2003 [25.613(a)(b)(c)(d)(f)]

Limitations and Conditions: (Continued)

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. Other military modifications may have been installed on the aircraft which are not part of this Supplemental Type Certificate. These installations do not conform to FAA Approved type design, but may have been accepted by the military Airworthiness Authority for operation by the United States Department of Defense. These installations are shown on FAA Form 8130-2, Conformity Certificate – Military Aircraft, dated April 27, 2005 or later. All non-conformances to FAA approved type design must be removed, or FAA approved, prior to returning the aircraft to civil registration with a standard airworthiness certificate.
4. This approval is limited to Boeing Model 747-E4A (Serial Numbers 20682, 20683, and 20684) and 747-E4B (Serial Number 20949).
5. Concurrent installations of Phase II GATM STC ST10396SC-D and SLCS STC ST10402SC-D are required.
6. Prior installations are required of the following Supplemental Type Certificates:
 - a. STC ST09665SC, MUX/GLSIU
 - b. STC ST09504SC, VHF COM Upgrade
 - c. STC ST09250SC, SHF-FDMA
 - d. STC ST00529WI-D, UHF NCA COM
 - e. STC ST10013SC, SECN
 - f. STC SA8686SW, Rack 11.5 Installation
 - g. STC SA1931SW, Command Control COM
 - h. STC SA8433SW, MMRT/VLF/LF
 - i. STC SA4642SW, Rack 7.25 Auto Data Processor
 - j. STC SA5005SW-D, Miscellaneous Mission Equipment
7. This STC approval is for the existing configuration as defined by the approved drawing list and later FAA approved minor change which have been reviewed and approved by the appropriate DAS-501296-CE staff members.
8. Installation of this STC modification must be accomplished at the Boeing Wichita Repair Station PI2R084L utilizing Boeing Planning Paper as Installation Instructions. FAA approved changes to this STC may be installed at locations other than Boeing Wichita Repair Station if the changes are prepared in the form of kit engineering and include adequate installation instructions.

END
April 17, 2006