

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

Number ST02646CH

This certificate issued to National Aircraft Service, Inc.
9133 Tecumseh-Clinton Road
Tecumseh, MI 49286

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified herein 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 : The Boeing Company

Model : 747-100, 747-100B, 747-100B SUD, 747-200B, 747-200F, 747-200C,
747-300, 747-400, 747-400D, 747-400F, 747SR, and 747SP

Description of Type Design Change:

Modify the PACK Systems with a National Aircraft Service, Inc. B747 Flow Control System installed in accordance with Master Data List, NK-MDL24, Revision NC, dated October 30, 2008 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) Airplane Flight Manual Supplement, National Aircraft Service, Inc., NK24AFMS, Revision NC, dated October 8, 2008 or later FAA approved revision is required on board the modified aircraft.
- 3) Airplanes modified pursuant to this certificate must be maintained in accordance with National Aircraft Service, Inc. Maintenance Manual Supplement NK-747-MM24, Rev. A, dated September 26, 2008, or later FAA accepted revision.
- 4) 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.

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 : March 27, 2008

Date reissued : January 8, 2009

Date of issuance : October 31, 2008

Date amended : March 21, 2013



By direction of the Administrator

Steven L. Lardinois

(Signature)

Steven L. Lardinois, Manager
Systems & 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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Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate
(Continuation Sheet)

Number ST02646CH

Date of Issuance: October 31, 2008

Date Amended: March 21, 2013

Certification Basis (continued):

The certification basis for the changed Boeing 747 aircraft as described in this certificate is as follows:

- a. The type certification basis for the Boeing 747 aircraft 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, March 27, 2008, is shown on TCDS A20WE. In addition, the applicant has complied with 14 CFR Part 26 as amended by Amendment 26-1.

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

§§ 26.11(c), 26.47 (This modification does not affect or create fatigue critical structure)

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