

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

Number SE03036CH

This certificate issued to Delta Air Lines Inc.
1775 Aviation Blvd
Atlanta, GA 30320-6001

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 33 of the Code of Federal Regulations See Type Certificate Data Sheet. Nos. E00055EN or E00056EN for complete certification basis.

Original Product-Type Certificate Number : E00055EN, E00056EN

Make : CFM International, S.A.

Model : See AML

Description of Type Design Change:

Application of a deep compressive stress layer using a Low Plasticity Burnishing (LPB) process on CFM56-7 Series Engines Stage 1 High Pressure Compressor (HPC) Blade Dovetails in accordance with Delta Air Lines Inc. Drawing No. 72-0396, Revision B, dated November 3, 2011, 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. The 1st Stage HPC blades modified in accordance with this STC can only be installed in engine models specifically listed in the attached AML.
3. Any weld repairs or thermal heat treatments exceeding 600 degrees F require the LPB process to be re-applied.
4. The 1st Stage HPC blades, part numbers P331P01, P331P02, P331P03, P331P04, P331P06, & P331P07 modified by STC SE03036CH cannot be intermixed with P391P02, P391P05 & P391P06 part number blades.
5. A facility that performs the LPB process in accordance with this STC must be FAA Approved.
6. Delta Air Lines, Inc. Instructions for Continued Airworthiness (ICA), for HPC blades modified in accordance with STC SE03036CH, FAA Accepted on December 14, 2011, or later FAA Accepted revision is required.
7. 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.

...End...

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: November 24, 2010

Date reissued :

Date of issuance: December 14, 2011

Date amended :

By direction of the Administrator



Original Signed By:

Timothy Smyth

(Signature)

Timothy Smyth
Manager, Propulsion Branch
Chicago Aircraft Certification Office

(Title)

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Limitations and Conditions (Continued)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.