



U.S. Department
of Transportation
**Federal Aviation
Administration**

Engine & Propeller Directorate

New York Aircraft Certification Office
1600 Stewart Avenue
4th Floor, Suite 410
Westbury, NY 11590
(516) 228-7300, Fax: (516) 794-5531

DEC 23 2014

Mr. David Austen
Senior Engineer – Aircraft Certification
Transport Canada Civil Aviation (TCCA)
9700 Jasper Avenue Northwest
Edmonton, Alberta T5J 4E6
Canada

Subject: Issuance of Supplemental Type Certificate (STC) SR03496NY

Dear Mr. Austen:

This is in reference to your request for a Supplemental Type Certificate for Eagle Copters Ltd. to replace existing engine with Honeywell HTS900-2-1D engine via FAA Form 8110-12 application dated December 11, 2011, and any subsequent correspondence on this project.

In recognition of the TCCA Supplemental Type Certificate SH14-47 Issue No. 1, dated December 9, 2014 for Installation of Honeywell HTS9000-2-1D Engine on Bell Helicopters model Bell407 aircraft, and the existing Bilateral Aviation Safety Agreement (BASA) Implementation Procedures for Airworthiness between the United States and Canada, we are pleased to accept the TCCA Statement of Compliance that compliance has been demonstrated with the FAA Type Certificate H2SW, and therefore we have issued FAA Supplemental Type Certificate (STC) SR03496NY, dated December 18, 2014 to Eagle Copters Ltd. The NAPA Project Number is C-11-0589 and the corresponding FAA Project Number is ST7080NY-R.

All mandatory inspections/modifications and related service bulletins issued in the future against this STC model must be forwarded to the following:

Federal Aviation Administration
Airworthiness Programs Branch
AIR-140
PO Box 26460
Oklahoma City, OK 73125
USA

Telephone: 405-954-4103
Facsimile: 405-954-4104

In accordance with the US/Canada bilateral relationship using TCCA compliance to the maximum extent, this STC includes reference to documents that include the words “or later Transport Canada approved/ accepted revision.” It is expected that as State of Design

responsible for the STC, TCCA will coordinate any major/significant changes, as deemed appropriate, with the FAA prior to TCCA approval/acceptance.

Please forward the enclosed STC and a copy of "Information Concerning Your Responsibility as a Holder of a Supplemental Type Certificate, Issued to a Canadian Applicant" to Eagle Copters Ltd. A copy of the STC and required documents should accompany each installation. Also, your attention is directed to the limitations and conditions specified in the STC.

If you have any questions or require additional information, please contact Mr. James Chi Lee by telephone at 1-516-228-7368 or by facsimile at 1-516-228-5531.

Sincerely,



 Gaetano Sciortino
Manager, New York
Aircraft Certification Office

Enclosures



United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

IMPORT

Number: SR03496NY

This certificate issued to: Eagle Copters Ltd.
823 McTavish Road, N.E.
Calgary, Alberta
Canada, T2E 7G9

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 27 of the Federal Aviation Regulations.

Original Product – Type Certificate Number: H2SW
Make: Bell Helicopter Textron
Model: 407

Description of Type Design Change:

1. Installation of Honeywell HTS900-2-1D Engine in accordance with Eagle Copters Ltd. Installation Instructions IIN-E407-789-1, Revision B, dated October 8, 2014, or later TCCA approved revision.
2. Operation of the aircraft with the Honeywell HTS900-2-1D Engine installed must be in accordance with TCCA approved Eagle Copters Ltd. Rotorcraft Flight Manual Supplement (RFMS) FMS-E407-789-1, Revision 0, dated November 10, 2014, TCCA approved December 9, 2014, or later TCCA approved revision.

(See Description of Type Design Change continued on Page 3 of 3)

Limitations and Conditions:

1. This installation is limited to the following serial numbers of the Bell 407: 53000-53138, 53140-53279, 53281-53470, 53472-53900, 53911-54299.
2. Maintenance of the aircraft and the Honeywell HTS900-2-1D Engine must be in accordance with Eagle Copters Ltd. Instructions for Continued Airworthiness (ICA) ICA-E407-789, Revision 0, dated August 29, 2014, or later TCCA accepted revision. The ICA includes modifications to the Airworthiness Limitations Section of the existing Bell 407 Maintenance Manual which were approved by TCCA on behalf of the FAA.

(See Limitations and Conditions continued on Page 3 of 3)

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, and revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of Application: October 11, 2011 Date Reissued:

Date of Issuance: December 18, 2014 Date Amended:

By Direction of the Administrator

Signature

Title

Gaetano Sciortino
Manager
New York Aircraft Certification Office

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).



United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number: SR03496NY

Date of Issuance: December 18, 2014

Description of Type Design Change (continued):

3. Maintenance of the aircraft and the Honeywell HTS900-2-1D Engine must be in accordance with Eagle Copters Ltd. Instructions for Continued Airworthiness (ICA) ICA-E407-789, Revision 0, dated August 29, 2014, or later TCCA accepted revision.

Limitations and Conditions (continued):

3. Bell Kit 407-706-020 (5250 lb internal gross weight) is a prerequisite for this STC.
4. Honeywell Service Bulletin (SB) HTS900-73-10-0002 is a prerequisite for this STC. Engines with data plate marked PNO/PNR 4-007-000-05 have the design change associated with Service Bulletin HTS900-73-10-0002 incorporated at the time of production.
5. Bell Model 407GX helicopters are not eligible to have this modification installed.
6. The installer must determine whether this design change is compatible with previously approved modifications.
7. 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:

1. Airworthiness and Environmental Standards for components and areas not affected by the change:
Refer to Basis of Certification for the Bell Helicopter Textron Model 407 as detailed in the FAA Type Certificate Data Sheet H2SW.
2. For components and areas affected by the change:
 - a. Refer to Basis of Certification for the Bell Helicopter Textron Model 407 as detailed in the FAA Type Certificate Data Sheet H2SW.
 - b. In addition, an Equivalent Level of Safety as delineated in FAA ELOS Memo #ST7080NY-R-P-01, dated November 12, 2014, was found for the freewheeling unit as part of the Honeywell HTS900-2-1D engine for the following CFRs and associated amendments: 27.917 (27-11), 27.923 (27-29), 27.927 (27-23), and 27.571 (27-26).
 - c. In addition, compliance was demonstrated for CFR 27.1195 at amendment 27-5.

-----END-----

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).