

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

Number SR02382NY

This certificate issued to Carson Helicopters, Inc.
32-H Blooming Glen Road
Perkasie, PA 18944

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 29 of the Federal Aviation Regulations.

Original Product Type Certificate Number: 1H15

Make: Sikorsky

Model: S-61A, S-61L, S-61N, S-61NM, S-61V (Serial No. 61271 only)

Description of Type Design Change:

Increase of Out of Ground Effect (OGE) and In Ground Effect (IGE) Hover Performance for the Sikorsky Models S-61L, S-61N and S-61NM Helicopters in accordance with Carson Helicopters, Inc. Report No. CHI-05-1000 Rev F, dated December 12, 2006. In addition, increase in OGE and IGE Hover Performance for the Sikorsky Models S-61A and S-61V Helicopters in accordance with Carson Helicopters, Inc. Report No. CHI-08-1 Rev. IR dated April 2, 2008.

Limitations and Conditions:

1. S-61 Models effected by this STC are required to be configured with the following:
 - a. CT58-140-1 Engines or – 2 Engines
 - b. S-61 Long or Short Fuselage Aircraft
 - c. Main Gear Box (P/N S6135-20600-039 and subsequent)
 - d. Ribbed pocket tail rotor blades (P/N S6117-30101-043 and subsequent)
 - e. Bifilar assembly (P/N S6112-23039-017 or -018)
 - f. Beam Pitch Control Tail Gear Box (P/N S6135-66705-1 and subsequent)
 - g. Fixed Land Main Gear or Sponson Landing Gear
 - h. STC SR1585NY (Composite Main Rotor Blades P/N 163-101-1)

(See Continuation Sheet 2)

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: April 7, 2005

Date reissued:

Date of issuance: May 18, 2007

Date amended: July 9, 2008



By direction of the Administrator

(Signature)

Anthony Socias
Manager
New York Aircraft Certification Office

(Title)

Number

Supplemental Type Certificate

(Continuation Sheet)

SR02382NY

Date of Amended: July 9, 2008

Limitations and Conditions (Continued).

2. For the Sikorsky Models S-61L, S-61N, and S-61NM helicopters the operation must be in accordance with Carson Helicopters, Inc. Rotorcraft Flight Manual Supplement No. 6, Rev. IR, dated May 18, 2007. For the Sikorsky Models S-61A and S-61V (Serial No. 61271 only) helicopters the operation must be in accordance with Carson Helicopters, Inc. Rotorcraft Flight Manual Supplement No. 10, Rev. IR, dated July 9, 2008.
3. 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.
4. The installer must determine whether this design change is compatible with previously approved modifications.

.....END.....