



United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

Number: SR00283SE

This certificate issued to: Vector Aerospace Helicopter Services, USA
1873 Shell Simmons Drive, Suite 110
Juneau, AK 99801

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 7 of the Civil Air Regulations dated August 1, 1956, including amendments 7-1 through 7-4. See TCDS No. 1H15 for other certification basis.

Original Product – Type Certificate Number: 1H15 Make: Sikorsky
Model: S-61L and S-61N (Transport Category Only)

Description of Type Design Change:

Removal of fifty (50) inch section from the forward fuselage between stations 110 and 160 and reinstallation of the forward cabin with associated fabricated parts in accordance with an FAA approved copy of McClenahan Engineering Shortskey Master Drawing List No. DM9513-3, Revision H, dated May 5, 1998, or later FAA approved revision.

Limitations and Conditions:

Approval of this change in type design applies to basic Sikorsky Model S-61L and S-61N rotorcraft equipped with the components listed on page 3 of this STC only. This approval should not be extended to rotorcraft of these models on which other previously approved modifications are incorporated unless it is determined that the relationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that rotorcraft.

Rotorcraft altered to install this shortened fuselage modification must be operated in accordance with those Helipro Rotorcraft Flight Manual Supplements (RFMSs) listed below. The modified rotorcraft must be maintained in accordance with the latest revisions of the basic Sikorsky Maintenance Manuals and Rotorcraft Overhaul and Retirement Schedules for the S-61L and S-61N rotorcraft. A copy of this certificate, continuation sheet No. SR00283SE, and the appropriate FAA approved Helipro RFMSs must be maintained as part of the permanent records for the modified rotorcraft.

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.

(See continuation 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: September 15, 1995 Date Reissued: September 10, 2005
February 3, 2016
March 7, 2016
Date of Issuance: February 26, 1996 Date Amended: May 14, 1998
August 4, 1999

By Direction of the Administrator

Signature _____

Title Christina Underwood
Manager
Atlanta 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).



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Supplemental Type Certificate

(Continuation Sheet)

Number: SR00283SE

INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Aircraft Certification Office of the transfer of this Supplemental Type Certificate. The FAA will reissue the certificate in the name of the transferee and forward it to him.

Transfer Endorsement

Transfer the ownership of Supplemental Type Certificate Number:

To (Name and address of transferee)

From (Name and address of grantor)

Extent of Authority (if licensing agreement):

Date of transfer:

Signature of grantor: _____

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).



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Supplemental Type Certificate

(Continuation Sheet)

Number: SR00283SE

Vector Aerospace Helicopter Services, USA
Reissued: March 7, 2016
Amended: May 14, 1998; August 4, 1999

Limitations and Conditions: (continued)

Required Components:

The shortened rotorcraft must be equipped with those components listed in the basic Sikorsky Rotorcraft Flight Manuals and Rotorcraft Flight Manual Supplements identified below, with the following exceptions:

- a. For 14 CFR Part 133 external load operations to a maximum cargo weight of 10,000 lbs., the Shortskey must be equipped with a Carson cargo hook sling system installed in accordance with – (S-61L) Transport Canada STA No. P-LSH91-344, or (S-61N) STC No. SH639NE.
- b. Sikorsky Bifilar Assembly P/N S6112-23039-017 must be installed on both the shortened S-61L and S-61N rotorcraft.
- c. The shortened S-61N rotorcraft must be equipped with either a S-61L type landing gear system in accordance with Sikorsky Aircraft Drawing No. S6107-25112, "Modification Kit, Sponson to Fixed Landing Gear", in accordance with Note 5 of the Type Certificate Data Sheet No. 1H15; or with S-61N landing gear and sponsons P/N S6125-50202-1 (L.H.) and -2 (R.H.) and S6125-51200-1 (L.H.) and -2 (R.H.), respectively.
- d. The flight test prototype rotorcraft were each flown with Sikorsky Engine Air Inlet Screen P/N 61-51-58-00 installed. Accordingly, this air screen is approved for use with the shortened fuselage modification. Also, the rotorcraft may be flown without an air screen in accordance with the basic Rotorcraft Flight Manual. The flight test data indicates that this installation is also compatible with all factory snow and ice shield configurations.

Rotorcraft Flight Manual Supplements (RFMSs):

The following FAA approved Helipro Rotorcraft Flight Manual Supplements, each dated February 6, 1996, (unless otherwise noted) or later FAA approved revisions, are required for this shortened installation:

S-61L

- a. HCI Supplement No. 1 to FAA approved Sikorsky S-61L Rotorcraft Flight Manual (basic flight manual), dated April 10, 1970, revised January 19, 1989.
- b. HCI Supplement No. 2 to FAA approved Sikorsky S-61L Rotorcraft Flight Manual Supplement No. 6 (covers the carriage of internal loads to gross weights of 22,000 lbs.), dated April 15, 1974, revised October 3, 1980.

S-61N

- a. HCI Supplement No. 1 to FAA approved Sikorsky S-61N Rotorcraft Flight Manual (basic flight manual), dates September 9, 1963, reissued December 17, 1971, revised January 19, 1989.
- b. HCI Supplement No. 2 to FAA Approved Sikorsky S-61N Rotorcraft Flight Manual Supplement No. 15 (covers the carriage of internal loads to gross weights of 20,500 lbs.), dated September 9, 1977, revised May 19, 1986.
- c. HCI Supplement No. 3 to FAA approved Sikorsky S-61N Rotorcraft Flight Manual Supplement No. 16 (covers the carriage of external loads to a gross weight of 22,000 lbs.), dated October 20, 1977, revised October 3, 1980.

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).