

DepartmentofTransportation_FederalAviationAdministration

Supplemental Type Certificate

Number SA3532NM

This certificate, issued to: **Raisbeck Engineering, Inc.**
4411 South Ryan Way
Seattle, WA 98178

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 3 of the Civil Air Regulations.

Original Product—Type Certificate Number: A9EA
Make: DeHavilland
Model: DHC-6-300

Description of the Type Design Change: Installation of Hartzell/Raisbeck Quiet Turbofan Propeller System in accordance with Raisbeck Engineering Drawing List 86-1500, Revision E, dated September 2, 1994, or latest FAA approved revision. This installation consists of Hartzell 4-bladed propellers and aluminum hubs with spinners and a propeller de-icing system.

Limitations and Conditions: Data is suitable for reproduction and installation in all DeHavilland DHC-6-300 airplanes with PT6A-27, or PT6A-34 engines. The approval of this change in type design applies to the above model aircraft only. This approval should not be extended to other aircraft of this model on which other previously approved modifications, including changes in type design, are incorporated unless it is determined that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of that aircraft.
 (See Continuation Sheet, Page 2)

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 11, 1986

Date reissued:

Date of issuance: August 8, 1986

Date amended: 1/30/87; 1/18/90; 4/4/94;
 11/3/94; 8/21/06



By direction of the Administrator

 (Signature)
 Acting Manager, Seattle 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.

This certificate may be transferred in accordance with FAR 21.47.

United States of America
Department of Transportation Federal Aviation Administration
Supplemental Type Certificate
(Continuation Sheet)

Number SA3532NM

Raisbeck Engineering, Inc.

Reissued:

Amended: 1/30/87; 1/18/90; 4/4/94; 11/3/94; 8/21/06

Limitations and Conditions: (cont'd)

A copy of this Certificate and Raisbeck Engineering Drawing List 86-1500 shall be maintained as part of the permanent records of each modified aircraft. The FAA-approved Airplane Flight Manual Supplement, Revision E, dated September 1994, or later approved revision shall be attached to the Airplane Flight Manual for each modified aircraft.

LANDPLANES

The applicable propellers for this type of aircraft are:

2 Hartzell HC-D4N-3C hubs with Hartzell D9290K blade in pairs
Intermediate floatation gear may be installed.

FLOATPLANES AND AMPHIBIAN FLOATPLANES

Installation of the Seafloats or the Amphibian Floats must be accomplished in accordance with Supplemental Type Certificate (STC) SA2CH.

The applicable propellers for this type of aircraft are:

2 Hartzell HC-D4N-3EYX1 hubs with Hartzell D9290K blade in pairs

LIMITATIONS

Applicable to landplanes, floatplanes and amphibian floatplanes: Propeller diameter 93 inches (Maximum); minimum allowable for repair 92.0 inches. No further reduction permitted.

Pitch Settings:

Low pitch 20.1 + 0.1 degrees Reverse -9.0 + 0.5 degrees
Feathered +84 to +85 degrees

Stabilized ground operation between 400 and 1100 propeller RPM prohibited.

Operation between 0 and 400 propeller RPM is permissible only with the propeller feathered.

In addition, the limitations specified in STC SA2CH for *Floatplanes and Amphibian Floatplanes* are also applicable.

- END -

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