United States of America

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number SA1242NW

This certificate, issued to Carol's Flying Service

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 8.10(a) *of the* Civil Air *Regulations.*

Original Product — Type Certificate Number: 1A16

Make: Grumman

Model: G-164A

Description of Type Design Change: Installation of a Hartzell HC-B3P30-2E/P10160-6 propeller on a Pratt & Whitney R985-AN1 engine in accordance with Carol's Flying Service Installation Instructions Number R985/829.

Limitations and Conditions: Data pertaining to this modification are considered inadequat for duplication in other aircraft. This approval is limited to the installation in Grumman G-164A , Serial Number 829 only. A copy of this Certificate and Addendum No. SA1242NW shall be maintained as part of the permanent records for the modified aircraft.

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 3, 1981

Date of issuance: May 7, 1981

Date reissued:

Date amended:

By direction of the Administrator

Charles C Schroeder

(Signature)

Acting Chief, Seattle Area 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.

FAA Form 8110-2 (10-68)

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Supplemental Type Certificate

(Continuation Sheet)

May 7, 1981 *Number* SA1242NW

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA1242NW

The conditions and limitations of Type Certificate Data Sheet Number 1A16 apply except where superseded by the following:

This Supplemental Type Certificate Data Sheet, which is part of STC SA1242NW, prescribes the conditions and limitations under which the STC was issued meets the airworthiness requirements of the Civil Air Regulations.

SUPPLEMENTAL TYPE CERTIFICATE HOLDER: Carol's Flying Service

GRUMMAN G-164A (RESTRICTED (AGRICULTURAL) CATEGORY) AS MODIFIED BY STC SA1242NW

Engine:	Pratt & Whitney R985-AN1 (with one 4 1/2 order damper and one 9th order damper.)
Engine Limits:	450 Hp @ 2300 rpm @ 37.5" Hg Manifold Pressure
Fuel:	80/87 minimum octane aviation gasoline
Propeller and Propeller Limits:	Hartzell HC-B3P30-2E/P10160-6 Diameter: 95" maximum; 95" minimum AVOID CONTINUOUS OPERATION BETWEEN 1600 RPM AND 1800 RPM
Instrument Markings:	Place a yellow arc on the tachometer (rpm) between 1600 rpm and 1800 rpm

- END -

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