United States of America

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

B

Number SA1654NM

This certificate, issued to William H. Cook

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 4 *of the* Civil Air *Regulations.*

Original Product — Type Certificate Number: A-734

Make: Grumman

Model: G-44 (Widgeon)

Description of Type Design Change: Installation of Hartzell HC-82V20/V8833N propellers and associated systems on Ranger 6-440C-5 engines, in accordance with Hartzell Propeller Assembly Drawing No. D-2020 as modified by William H. Cook Drawings (Sheets 1 & 2) containing parts (1) through (5) as illustrated in photos (1) through (9). NOTE: This modification is accomplished through the installation of a Woodward Governor, unfeathering accumulator, and dry air vacuum pump including a Hartzell 224 oil transfer unit as described in William H. Cook Report WHC 1000.

Limitations and Conditions: Data pertaining to this modification are considered inadequate for duplication in other aircraft. This approval is limited to the installation in Grumman, G-44 aircraft, Serial Number 1365 only. A copy of this Certificate and FAA Approved Flight Manual Supplement 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 28, 1982

Date of issuance: June 3, 1982

Date reissued:

Date amended:

By direction of the Administrator

(Signature)

Chief, Seattle Area Aircraft Certification Office

(Title)

FEDERAL AVIATION ADMINISTRATION

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)