

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

*Number* SA444SW

*This certificate issued to* Bemidji Aviation Services, Inc.  
4125 Hangar Dr., N.W.  
Bemidji, MN 56601

*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 :* 3A20  
*Make :* Beech  
*Model :* 65, A65, 65-80, 65-88, 65-B80, 65-A80-8800, 70

*Description of Type Design Change:*

Installation of Lycoming IO-720-A1A, or A1B engines in accordance with Swearingen Aviation Drawing List 2801-DL, Revision S, dated April 9, 1972, and Excalibur Aviation Report 2801-65-88 dated June 27, 1975, or later FAA approved revision.

*Limitations and Conditions:*

Limitations and Conditions (Applicable to STC SA444SW through Rev. 10 dated 2/12/1973 for 80 in. dia. Propeller):

- Maximum weights:  
Model 65: Take-off 7900 lbs., landing 7600 lbs.  
Model A65: Take-off 7900 lbs., landing 7700 lbs.  
Model 65-80: Take-off 7900 lbs., landing 7700 lbs.

(See continuation sheet 3 of 4)

*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 :* July 24, 1964

*Date reissued :* February 11, 1999, July 9, 1999

*Date of issuance :* November 20, 1964

*Date amended :* 5/25/1965, 8/26/1965, 10/29/1965, 1/26/1967  
4/5/1968, 11/8/1968, 3/3/1970, 9/18/1970, 10/13/1970, 2/12/1973  
8/31/1973, 3/5/1974, 7/30/1975, 7/20/1977, 1/15/1980, 4/25/1980,  
3/22/1984 Rev. 17

*By direction of the Administrator*



(Signature)

Melvin D. Taylor  
Manager  
Atlanta 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.

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(Continuation Sheet)

*Number* SA444SW

Date of Issuance: November 20, 1964  
Reissuance Date: February 11, 1999, July 9, 1999

Limitations and Conditions (Continued)

2. C. G. Range  
Model 65 and 65-80: (152.2) to (158.4) at 7900 lbs.  
(147.6) to (158.4) at 7060 lbs. or less  
  
Model A65: (152.2) to (160.4) at 7900 lbs.  
(147.6) to (160.4) at 7060 lbs. or less
3. Airspeed Limits (CAS):  $V_c = 220$  m.p.h. (Model 65, A65, and 65-80).
4. Model 65: FAA Approved Airplane Flight Manual 2801-R9 dated 11/20/64  
Rev. 1 dated 1/26/67, and Rev. 2 dated 3/27/67 are required.
5. Model A65: FAA Approved Airplane Flight Manual 2801-R12 dated 2/27/60 is required.
6. Model 65-80: FAA Approved Airplane Flight Manual 2801-R13 dated 7/28/70 is required.
7. Model 65 and Model A65: Report No. 2801-R4, Rev. G, dated 4/14/72 actual weight and balance and equipment list must be furnished for each aircraft.
8. Model 65: FAA Approved Swearingen Aircraft Airplane Flight Manual Supplement dated 8/26/65 is required when Woodward Electric propeller Synchronizer is installed per STC SA444SW.

Limitations and Conditions (Applicable to STC SA444SW Rev. 17 dated 3/22/84 for 82 in. dia. Propeller. No cutoff permitted):

1. Maximum weights:  
  
Model 65: Take-off 8000 lbs., landing 7600 lbs.  
Model A65: Take-off 8000 lbs., landing 7700 lbs.  
Model 65-80: Take-off 8000 lbs., landing 7700 lbs.  
Model 65-B80, 65-88 and  
Model 65-A80-8800: Take-off 8800 lbs., landing 8800 lbs.  
Model 70: Take-off 8200 lbs., landing 8200 lbs.
2. C.G. Range  
Model 65 and 65-80: (152.8) to (158.4) at 8000 lbs.  
(147.6) to (158.4) at 7060 lbs. or less  
  
Model A65: (152.8) to (160.4) AT 8000 lbs.  
(147.6) to (160.4) at 7060 lbs. or less  
  
Model 65-B80, 65-88, and  
65-A80-8800: (150.7) to (160.4) at 8800 lbs.  
(147.6) to (160.4) at 7750 lbs.  
  
Model 70: (148.9) to (160.4) at 8200 lbs.  
(147.6) to (160.4) at 7750 lbs.
3. Airspeed Limits (CAS):  $V_c = 220$  m.p.h. (Model 65-A65, and 65-80)  
 $V_c = 205$  m.p.h. (Model 65-B80, 65-88, and 65-A80-8800)

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

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Date of Issuance: November 20, 1964  
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Limitations and Conditions (Continued)

- $V_c = 205$  m.p.h. (Model 70)
4. Model 65: FAA Approved Airplane Flight Manual 2801-R9 dated 11/20/64, Rev. 1 dated 1/26/67, Rev. 2 dated 3/26/67 and Rev. 3 dated 4/14/72 are required.
  5. Model A65: FAA Approved Airplane Flight Manual 2801-R12 dated 2/27/70, Rev. A dated 2/18/71 and Rev. B dated 4/14/72 are required.
  6. Model 65-80: FAA Approved Airplane Flight Manual 2801-R13 dated 7/28/70, Rev. A dated 6/10/71, Rev. B dated 4/14/72 are required.
  7. Model 65-B80, 65-88, and 65-A80-8800; FAA Approved Airplane Flight Manual Dated 6/9/72, revised 4/25/80 is required.
  8. Model 70: FAA Approved Airplane Flight Manual 2801-R15 maximum take-off weight of 8200 lbs., dated 8/31/73 is required.
  9. Model 65: FAA Approved Swearingen Aircraft Airplane Flight Manual Supplement dated 8/26/65 is required when Woodward Electric Propeller Synchronizer is installed per STC SA444SW.

This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated, unless it is determined by the installer that the interrelationship between this change and any other previously approved modifications will produce no adverse effect upon the airworthiness of that airplane. 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."