

Department of Transportation — Federal Aviation Administration  
**Supplemental Type Certificate**

*Number* SA138SW

*This certificate, issued to* Pan Air Corporation  
 P. O. Box 26425  
 New Orleans, Louisiana 70125

*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 1 of the Bureau of Air Commerce Regulations.*

**Aero Bulletin 7A**

*Original Product — Type Certificate Number:* 654  
*Make:* Grumman  
*Model:* JRF-1, JRF-2, JRF-4, JRF-5, and JRF-6B

*Description of Type Design Change:* Modify Grumman Navy Models JRF-1, JRF-2, JRF-4, JRF-5, and JRF-6B for operation at a maximum gross weight of 9,000 lbs. by installing retractable wing tip floats and 24 volt electrical system in accordance with Pan Air Corporation Drawing List No. 34, Rev. 4 dated March 3, 1970.

*Limitations and Conditions:*

1. C.G. Range: +24.9 to 31 at 9000 lbs. +22.4 to 31 at 7185 lbs. Datum at wing L.E. at fuselage.  
 (Straight line variation between points given)
2. Maximum weight landing 9,000 lbs. Take-off 9,000 lbs.  
 Land Operations Only.
3. This approval applies to Grumman Models JRF-1, -2, -4, -5, and -6B only and is not applicable to the original Grumman Models G-21 and G-21A.
4. Compatibility of this modification with other previously approved modifications must be determined by the installer.
5. Aircraft must be placarded: Max.T.O.& Landing GWT.9000 lbs.-Land Operations Only.

*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:* February 26, 1962

*Date reissued:* 7/19/66; 4/15/70; 6/6/79;  
 12/3/79 Revision 4

*Date of issuance:* October 15, 1962

*Date amended:*



*By direction of the Administrator*

*Don P. Watson*

(Signature)

Don P. Watson  
 Chief, Engineering and Manufacturing Branch

(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.

INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Regional 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.

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### TRANSFER ENDORSEMENT

Transfer the ownership of Supplemental Type Certificate Number \_\_\_\_\_

to *(Name of transferee)* \_\_\_\_\_

*(Address of transferee)* \_\_\_\_\_

*(Number and street)*

\_\_\_\_\_  
*(City, State, and ZIP code)*

from *(Name of grantor) (Print or type)* \_\_\_\_\_

*(Address of grantor)* \_\_\_\_\_

*(Number and street)*

\_\_\_\_\_  
*(City, State, and ZIP code)*

Extent of Authority (if licensing agreement): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Date of Transfer: \_\_\_\_\_

Signature of grantor *(In ink)*: \_\_\_\_\_