United States of America

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number SA1944WE

This certificate, issued to Madras Air 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 3 *of the* Civil Air *Regulations.*

Original Product — Type Certificate Number: 3A19

Make: Cessna

Model: 150, 150A through H, J, K, L, & M; 152

Description of Type Design Change: Installation of Madras Air Service Wing Tips in accordance with Madras Air Service Drawing No. MAS-102, Sheet 1, Revision "B" dated April 20, 1973, and Sheet 2, Revision "B" dated July 11, 1972.

Limitations and Conditions: Approval of this change in type design applies basically to the above model aircraft. This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the interrelationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that aircraft. A copy of this Certificate and Addendum No. SA1944WE 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: May 13, 1969

Date of issuance: July 31, 1969

Date reissued:

Date amended: April 23, 1973; July 31, 1978; August 16, 1979

By direction of the Administrator

Charles C Schroder

(Signature)

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.

FAA Form 8110-2 (10-68)

United States of America

Department of Transportation—Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Amended August 16, 1979 *Number* SA1944WE

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA1944WE

The conditions and limitations of Type Certificate Data Sheet No. 3A19 apply except as follows:

This STC Addendum, which is part of Supplemental Type Certificate No. SA1944WE, prescribes the conditions and limitations under which the product for which the STC was issued meets the airworthiness requirements of the Civil Air Regulations. A copy of this STC Addendum is required to be maintained as a part of the modified aircraft permanent record.

SUPPLEMENTAL TYPE CERTIFICATE HOLDER: Madras Air Service

I & II. MODELS 150 THROUGH 150F LANDPLANES AS MODIFIED BY STC SA1944WE

Approved for Normal Category operation only

III. MODELS 150G THROUGH 150K LANDPLANES AND SEAPLANES AS MODIFIED BY STC SA1944WE

Approved for Normal Category operation only

V. MODELS 150L LANDPLANE AS MODIFIED BY STC SA1944WE

Approved for Normal Category operation only

VII. MODELS 150M LANDPLANE AS MODIFIED BY STC SA1944WE

Approved for Normal Category operation only

IX. MODELS 152 (1978 MODEL AND ON) LANDPLANES AS MODIFIED BY STC SA1944WE

Approved for Normal Category operation only

NOTE 1. Conformity to Madras Air Service Drawing No. MAS-102, Sheet 1, Rev. B, dated April 20, 1973, and Sheet 2, Rev. B, dated July 11, 1972, must be established prior to release of the modified aircraft to Normal Category operation.

NOTE 2. In addition to the change required above, the aircraft Weight and Balance Report must be revised as follows at the time of modification:

a. Weight of "Super Tips" = 9.5 lbs. total; deduct weight of tips being removed and add the difference to the aircraft empty weight. The moment change is negligible.

b. Loading Instructions, when necessary, must be provided for each aircraft modified.

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

FAA FORM 8110-2-1 (10-69)

This certificate may be transferred in accordance with FAR 21.47.

NOTE 3. The placards required by Type Certificate Data Sheet 3A19, NOTE 2, must be revised as follows:

A(2)(a) applicable to Models 150, 150A, B, C, deleted. Must now read:

"NO AEROBATIC MANEUVERS (INCLUDING SPINS) ARE APPROVED. THIS AIRCRAFT MUST BE OPERATED AS A NORMAL CATEGORY AIRCRAFT AND IN COMPLIANCE WITH THE OPERATING LIMITATIONS STATED IN THE FORM OF PLACARDS, MARKINGS, AND MANUALS. DESIGN MANEUVERING SPEED 106 MPH (92 KNOTS)"

A(2)(b) applicable to Models 150D, E, F, G, H, J, & K deleted. Must now read:

"NO AEROBATIC MANEUVERS (INCLUDING SPINS) ARE APPROVED. THIS AIRCRAFT MUST BE OPERATED AS A NORMAL CATEGORY AIRCRAFT AND IN COMPLIANCE WITH THE OPERATING LIMITATIONS STATED IN THE FORM OF PLACARDS, MARKINGS, AND MANUALS. MAXIMUM MANEUVERING SPEED 109 MPH (95 KNOTS)"

A(2)(4) applicable to Models 150L, M, deleted. Must now read:

"NO AEROBATIC MANEUVERS (INCLUDING SPINS) ARE APPROVED. THIS AIRCRAFT MUST BE OPERATED AS A NORMAL CATEGORY AIRCRAFT AND IN COMPLIANCE WITH THE OPERATING LIMITATIONS STATED IN THE FORM OF PLACARDS, MARKINGS, AND MANUALS. MAXIMUM MANEUVERING SPEED 109 MPH (95 KNOTS)"

A(8) Model 152 (1978 Model and on) deleted. Must now read:

"NO AEROBATIC MANEUVERS (INCLUDING SPINS) ARE APPROVED. THIS AIRCRAFT MUST BE OPERATED AS A NORMAL CATEGORY AIRCRAFT AND IN COMPLIANCE WITH THE OPERATING LIMIATIONS STATED IN THE FORM OF PLACARDS, MARKINGS, AND MANUALS. MAXIMUM MANEUVERING SPEED (IAS) 104 KNOTS"

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