



US Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020
2/28/2011

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))

1. Aircraft	Nationality and Registration Mark N280MB	Serial No. 3255	
	Make Twin Commander	Model 500S	Series 500
2. Owner	Name (As shown on registration certificate) AeroMetric, Inc.	Address (As shown on registration certificate) Address 4020 Technology Parkway	
		City Sheboygan State WI	Zip 53083 Country USA

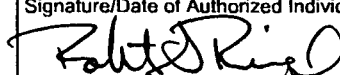
3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
☐	☒	AIRFRAME	_____	(As described in Item 1 above)	_____
☐	☐	POWERPLANT	_____	_____	_____
☐	☐	PROPELLER	_____	_____	_____
☐	☐	APPLIANCE	Type _____ Manufacturer _____	_____	_____

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name Robert S Ringel		☒ U. S. Certificated Mechanic	Manufacturer
Address 1620 Cambridge Avenue		☐ Foreign Certificated Mechanic	C. Certificate No.
City Sheboygan State WI		☐ Certificated Repair Station	A&P 2722551 IA
Zip 53081 Country USA		☐ Certificated Maintenance Organization	

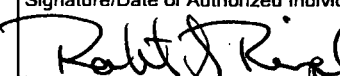
D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per 14 CFR Part 43 App. B ☐	Signature/Date of Authorized Individual  Robert S Ringel 11/26/12
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7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ Approved ☐ Rejected

BY	FAA Flt. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station ☒	Inspection Authorization	

Certificate or Designation No. A&P 2722551 IA	Signature/Date of Authorized Individual  Robert S Ringel 11/26/12
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NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N280MB

Nationality and Registration Mark

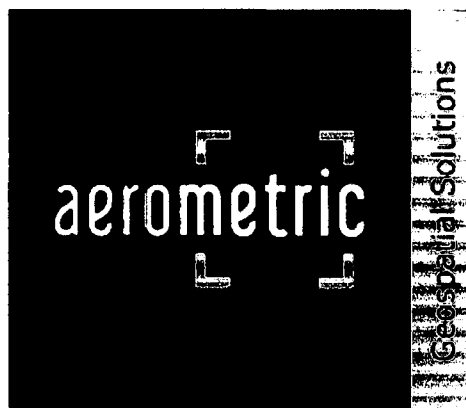
11/26/12

Date

This aircraft has an existing modification for a camera installation. The modification includes two viewports cut into the lower portion of the fuselage and the associated structural reinforcement. The installation is previously approved via STC SA1332SW and FAA Form 337 dated May 7, 1984. This report will substantiate the four equipment installations currently being used in the aircraft. Attached is FAA Form 8110-3 statement of compliance, "Shrike Commander Camera Installations, drawings AM-SC-1000, dated 11/25/12." And "Stress Report Shrike Commander Camera installations Report AM-SC-1000SR, dated 11/25/12." System and installations shall be inspected for conformity to the installation drawings, condition and security of installation to coincide with regularly scheduled maintenance events. No special Instructions for Continued Airworthiness apply.

-----END-----

☐ Additional Sheets Are Attached

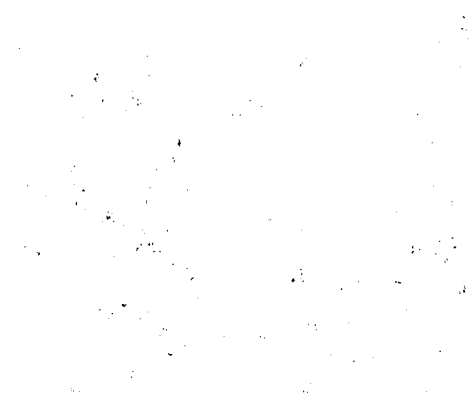


AM-SC-1000SR

**Stress Report
Shrike Commander Camera Installations**

Rev -
Date: 11/25/12

Prepared By: _____
John X. Schober Jr
Structural DER



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2 Scope

This report will analyze various camera and equipment installations into a Shrike Commander aircraft. The aircraft is a Rockwell International model 500S, serial number 3255. The aircraft has an existing modification for camera installations. The modification includes two viewports cut into the lower portion of the fuselage and the associated structural reinforcement. The installation of the camera holes are previously approved via a STC.

This report will substantiate the seven equipment installation combinations currently being used on the aircraft. There are four different systems. Each system will be examined independently.

3 References

MMPDS, Metallic Materials Properties Development and Standardization
Rourks Equations for Stress and Strain 7th edition
TCDS 6A1 Twin Commander Model 500S
CAR3,
CFR23

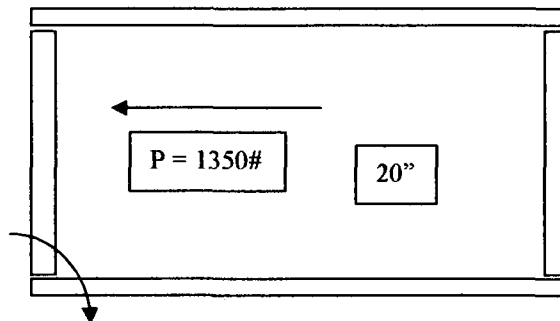
4 Structural Substantiation AM-SC-1000, Shrike Commander Camera Installations

4.1 -15 Forward Equipment Rack

The forward equipment rack is a 4130 steel weldment. It is made up of 1.0" x 0.125" tube. The weldment is attached to the existing seat tracks with angles that clamp onto the seat tracks at four locations. The angles are attached to the rack with two AN4 bolts each. The equipment rack is used for various installations. Therefore a conservative analysis will use a total weight of 150 lbs.

Check weldment

The total loading of 150 lbs will be critical for the 9G forward loading. The load will be reacted at the welds as a moment. Assume that the load is applied to the rack at $\frac{3}{4}$ of the height of the rack.



Free Body Diagram; Forward Equipment Rack

$$P = 100 \#(9G) = 1350 \text{ lbs}$$

$$H = 25''(3/4) = 20 \text{ in}$$

The moment is reacted by all four of the legs of the rack

$$M = PH = 1350\#(20'')/4 = 6750 \text{ in-lb}$$

$$\text{Applied stress} = Mc/I$$

$$C = 1.0''/2 = 0.5 \text{ in}$$

$$I = (1/12)(1.^4 - (1.-2(0.125))^4) = 0.057$$

$$\text{Applied Stress} = 6750(0.5)/0.057 = 11,842 \text{ psi}$$

Conservatively assume the allowable F_{tu} is for annealed 4130, since the welding is after heat treatment.

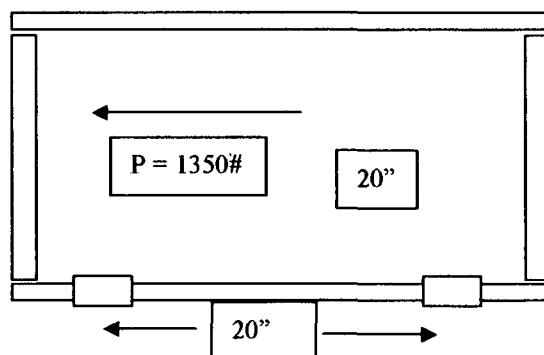
$$F_{tu} = 95 \text{ ksi}$$

MMPDS

$$MS = 95,000 / 11,589 - 1 = \textbf{+High}$$

Check Attachment Angles

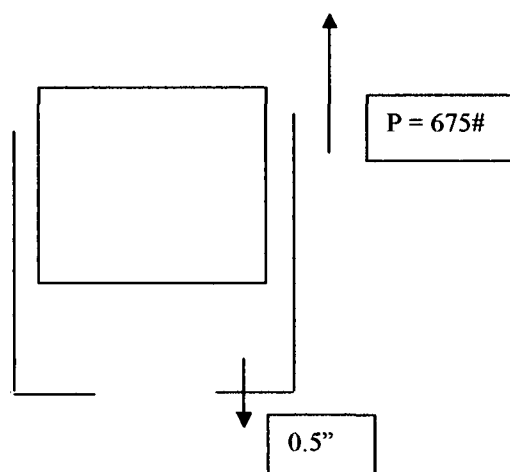
The rack is attached at four locations with angles that clamp onto the existing seat tracks. Each of the angles are attached with two AN4 fasteners. The angles are 0.10" thick. The angles will react the load in bending. The load applied to the angle is derived from a moment/couple. The angles are 3.0" long.



Free Body Diagram; Equipment Rack With Angles

Each location has two angles

$$P = 1350\# (20'')/(20'')(2) = 675 \text{ lbs}$$



Free Body Diagram; Seat Track Angles

$$M = 675\#(0.5'') = 338 \text{ in-lb}$$

$$C = 0.10''/2 = 0.05''$$

$$I = (1/12)(bh^3) = 3.0(0.10^3)/12 = 0.00025$$

$$Mc/I = 338(0.05)/0.00025 = 67,500 \text{ psi}$$

$$F_{tu} = 95 \text{ ksi}$$

MMPDS

$$MS = 95/68 - 1 = +0.41$$

Check Fasteners

Each location has two AN4 fasteners. The fasteners will react the loading in shear.

$$P = 1350\# (20'')/(20'')(2) = 675 \text{ lbs}$$

$$P_{allow} = 3,680 \text{ lbs}$$

AN4 specification sheet

$$MS = 3680/675 - 1 = \textbf{High}$$

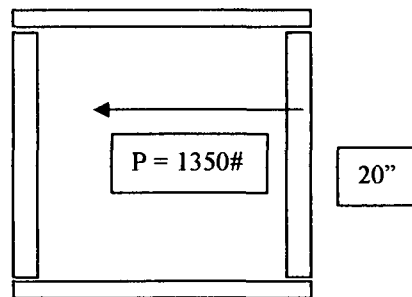
Therefore this engineering is acceptable.

4.2 -17 Aft Baggage Equipment Rack

The Aft Baggage equipment rack is a 6061T6 aluminum weldment. It is made up of 1.5" x 0.125" angles and plates. The rack is attached to the existing baggage floor with 25 0.3125 diameter screws. The equipment rack is used for various installations. Therefore a conservative analysis will use a total weight of 150 lbs.

Check attachment to the fuselage

The total loading of 150 lbs will be critical for the 9G forward loading. The load will be reacted evenly in shear by all fasteners. The kick load will be reacted by the forward and aft fasteners as a moment/couple. The aft 10 fasteners are critical for shear and tension. Assume the center of gravity is 20". The depth of the rack is 24".



Free Body Diagram; aft baggage Equipment Rack

$$P = 100 \#(9G) = 1350 \text{ lbs}$$

$$H = 20" \text{ in}$$

Applied load

$$\text{Shear} = 1350\# / 25 \text{ fast} = 54 \text{ lbs}$$

$$\text{Tension} = 1350\# (20"/24" * 10 \text{ fast}) = 112.5 \text{ lbs}$$

Allowable load

$$\text{Shear} = 2700 \text{ lbs}$$

$$\text{Tension} = 3600 \text{ lbs}$$

MS = High

4.3 AM-SC-1000-01, Optec Gemini LiDAR Installation

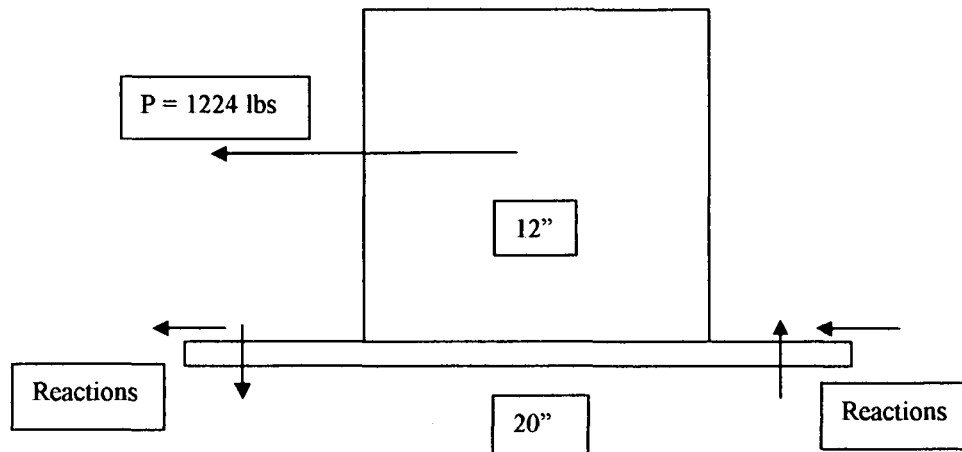
This engineering installs the camera and support equipment for an Optec Gemini LiDAR system. The installation consists of the -11 Forward Equipment Rack, LiDAR camera, and control box.

4.3.1 LiDAR Camera Installation

The LiDAR Camera and its assembly are installed with four AN5 fasteners. The total weight of the unit is 136 lbs. The bolts will react the forward loading in shear split between the four attachments. The kick load will be reacted as a moment/couple. The aft attachments will be critical for shear and tension.

$$P = 136\#(9G) = 1224 \text{ lbs}$$

Height of the center of gravity is assumed to be 12 in



Free Body Diagram; LiDAR Camera Installation

Applied loading

$$P_{\text{shear}} = 136\#(9G)/4 \text{ fast} = 306 \text{ lbs}$$

$$P_{\text{tension}} = 136\#(9G)(12")/(20" \times 2 \text{ fast}) = 367 \text{ lbs}$$

Allowable Loading

$$P_{\text{shear}} = 6,500 \text{ lbs}$$

$$P_{\text{tension}} = 5,750 \text{ lbs}$$

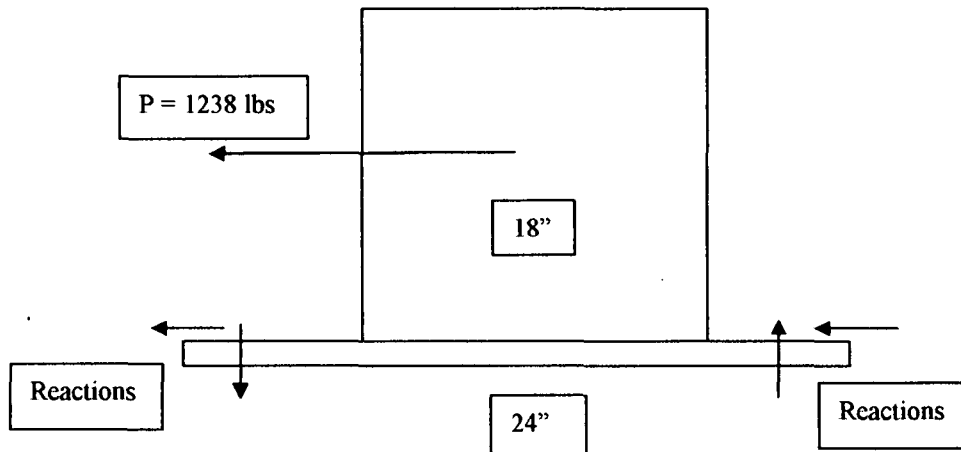
MS = **High**

4.3.2 LiDAR Control Box Installation

The LiDAR Control Box and its assembly is installed with four AN4 fasteners. The total weight of the unit is 137.5 lbs. The bolts will react the forward loading in shear split between the four attachments. The kick load will be reacted as a moment/couple. The aft attachments will be critical for shear and tension.

$$P = 137.5\#(9G) = 1238 \text{ lbs}$$

Height of the center of gravity is assumed to be 18 in



Free Body Diagram; LiDAR Camera Installation

Applied loading

$$P_{\text{shear}} = 137.5\#(9G)/4 \text{ fast} = 309 \text{ lbs}$$

$$P_{\text{tension}} = 137.5\#(9G)(18\text{'})/(24\text{'}) \times 2 \text{ fast} = 929 \text{ lbs}$$

Allowable Loading

$$P_{\text{shear}} = 3,680 \text{ lbs}$$

$$P_{\text{tension}} = 4,800 \text{ lbs}$$

$$MS = \frac{1}{\sqrt{R_{\text{shear}}^2 + R_{\text{tension}}^2}} - 1 = \frac{1}{\sqrt{\left(\frac{309\text{lbs}}{3680\text{lbs}}\right)^2 + \left(\frac{929\text{lbs}}{4800\text{lbs}}\right)^2}} - 1 = +3.739$$

Therefore this engineering is acceptable.

4.4 AM-PN-1000-03, RMK Top 15 Film Camera Installation

This engineering installs the camera and support equipment for an RMK Top 15 Film Camera system. The installation consists of the -11 Forward Equipment Rack, camera, and -13 Aft Equipment Rack.

4.4.1 -15 Forward Equipment Rack

The forward equipment rack is acceptable per the analysis above. This installation carries a total weight of 69 lbs and the analysis above uses a total weight of 150 lbs.

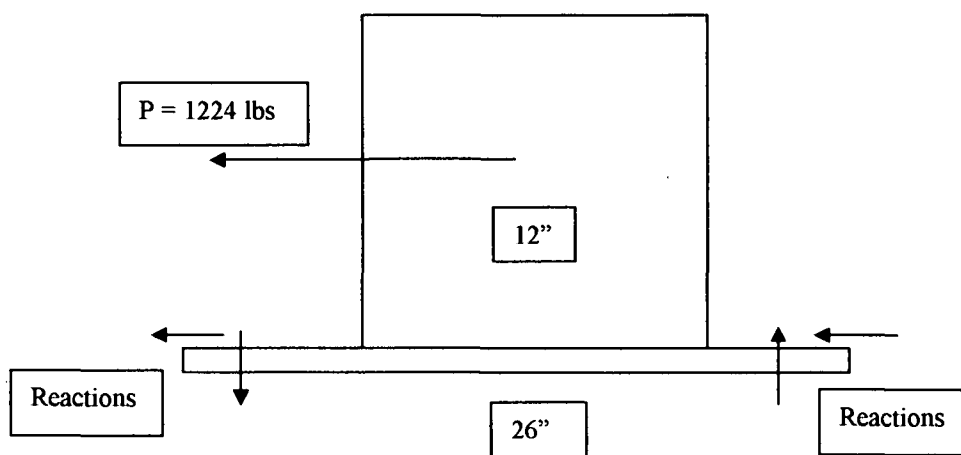
$$MS = 150/60 - 1 = +1.5$$

4.4.2 RMK Top 15 Film Camera Installation

The RMK Camera and its assembly are installed with four AN5 fasteners. The total weight of the unit is 48 lbs. The bolts will react the forward loading in shear split between the four attachments. The kick load will be reacted as a moment/couple. The aft attachments will be critical for shear and tension.

$$P = 136\#(9G) = 1224 \text{ lbs}$$

Height of the center of gravity is assumed to be 12 in



Free Body Diagram; LiDAR Camera Installation

Applied loading

$$P_{\text{shear}} = 136\#(9G)/4 \text{ fast} = 306 \text{ lbs}$$

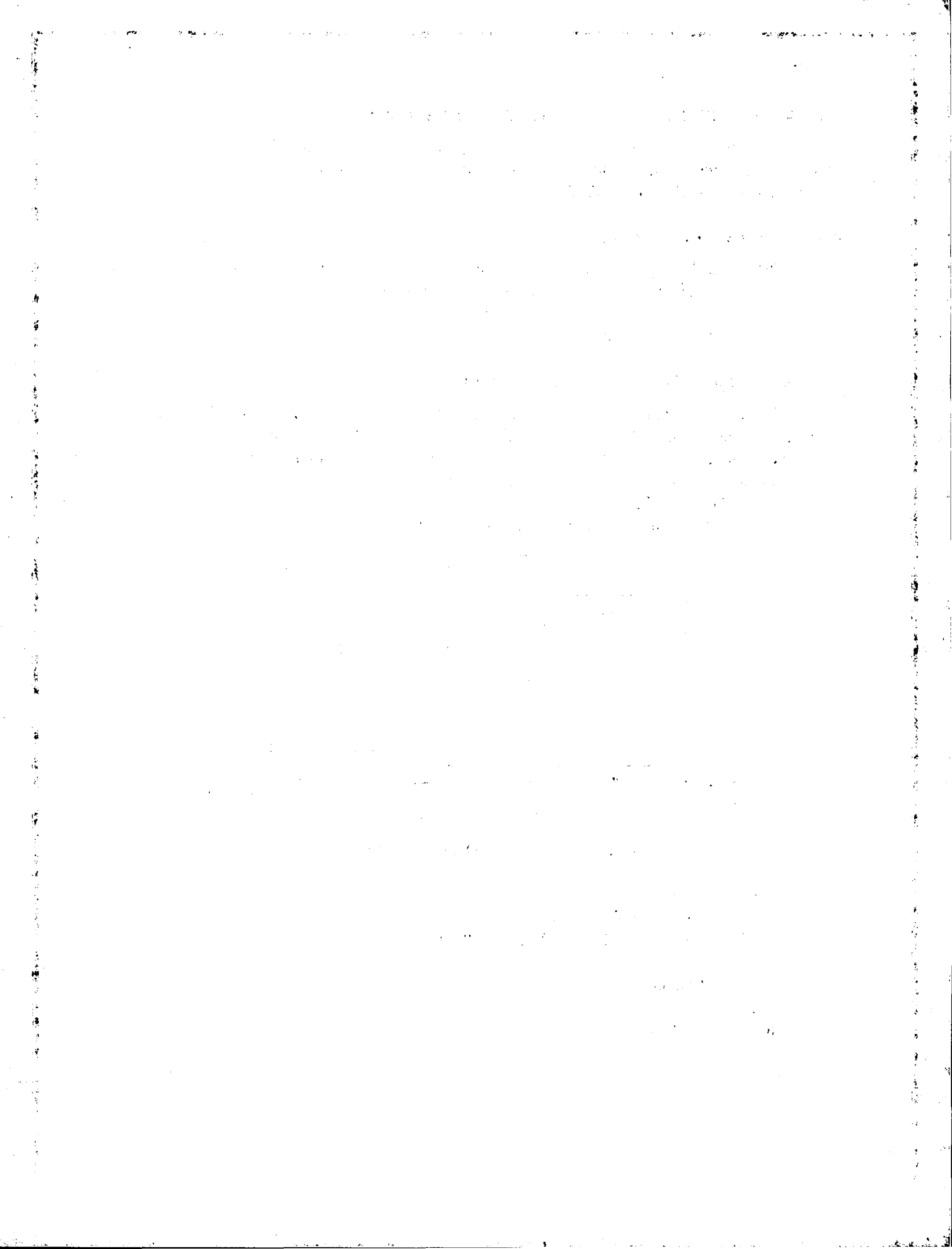
$$P_{\text{tension}} = 136\#(9G)(12")/(26" * 2 \text{ fast}) = 282 \text{ lbs}$$

Allowable Loading

$$P_{\text{shear}} = 6,500 \text{ lbs}$$

$$P_{\text{tension}} = 5,750 \text{ lbs}$$

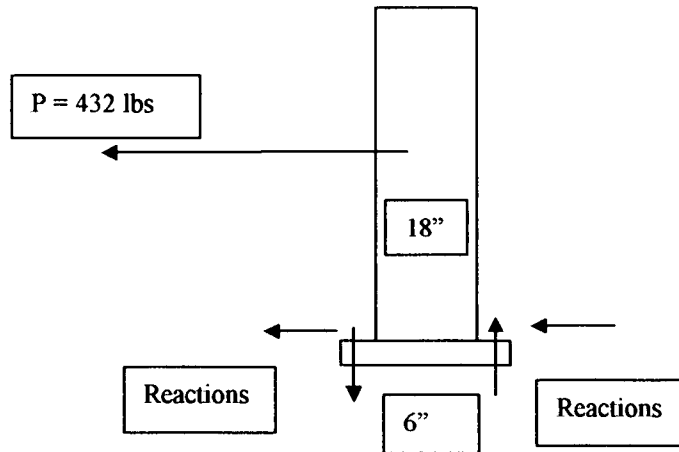
MS = **High**



4.4.3 T-NT Scope Installation

The T-NT Scope is attached to the existing fastener locations with four AN4 bolts each. The equipment weighs a total of 48 lbs and is 36 inches tall. The inertial loading is critical 9G forward loading. The fasteners will equally react the shear loading. The kick load will be reacted as a moment / couple. The aft fasteners will be critical for shear and tension.

$$P = 48\#(9G) = 432 \text{ lbs}$$



Freebody diagram T-NT Scope

Applied loading

$$P_{\text{shear}} = 48\#(9G)/4 \text{ fast} = 108 \text{ lbs}$$

$$P_{\text{tension}} = 48\#(9G)(18'')/(6'' \cdot 2 \text{ fast}) = 648 \text{ lbs}$$

Allowable Loading

$$P_{\text{shear}} = 3,680 \text{ lbs}$$

$$P_{\text{tension}} = 4,800 \text{ lbs}$$

$$MS = \frac{1}{\sqrt{R_{\text{shear}}^2 + R_{\text{tension}}^2}} - 1 = \frac{1}{\sqrt{\left(\frac{108 \text{ lbs}}{3680 \text{ lbs}}\right)^2 + \left(\frac{648 \text{ lbs}}{4800 \text{ lbs}}\right)^2}} - 1 = +6.24$$

Therefore this engineering is acceptable.

4.5 AM-PN-1000-05, DMC Digital Mapping Camera Z/I Installation

This engineering installs the camera and support equipment for an DMC Digital Mapping Camera system. The installation consists of the -11 Forward Equipment Rack, camera, and -13 Aft Equipment Rack.

4.5.1 -15 Forward Equipment Rack

The forward equipment rack is acceptable per the analysis above. This installation carries a total weight of 80 lbs and the analysis uses a total weight of 150 lbs.

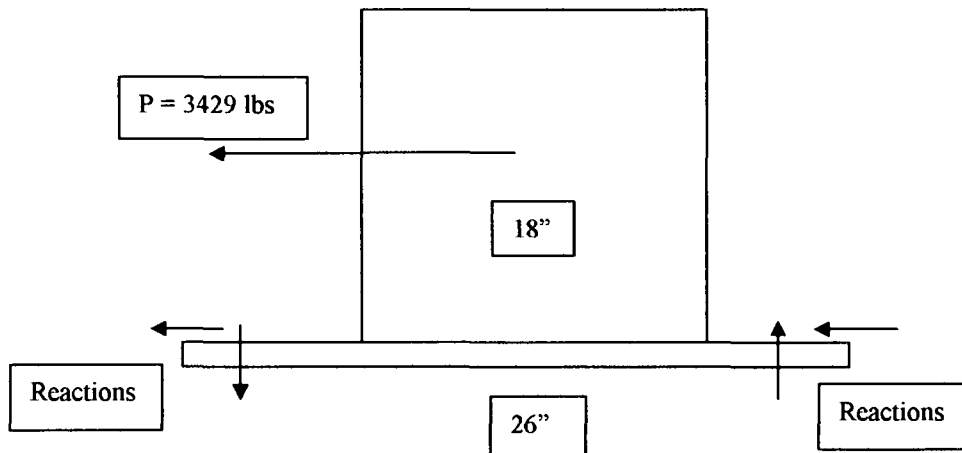
$$MS = 150/80 - 1 = +0.88$$

4.5.2 DMC Digital Mapping Camera Installation

The DMC Camera and its assembly are installed with four AN5 fasteners. The total weight of the unit is 381 lbs. The bolts will react the forward loading in shear split between the four attachments. The kick load will be reacted as a moment/couple. The aft attachments will be critical for shear and tension.

$$P = 381\#(9G) = 3429 \text{ lbs}$$

Height of the center of gravity is assumed to be 18 in



Free Body Diagram; LiDAR Camera Installation

Applied loading

$$P_{\text{shear}} = 381\#(9G)/4 \text{ fast} = 857 \text{ lbs}$$

$$P_{\text{tension}} = 381\#(9G)(18\text{'})/(26\text{'}) * 2\text{fast} = 1187 \text{ lbs}$$

Allowable Loading

$$P_{\text{shear}} = 6,500 \text{ lbs}$$

$$P_{\text{tension}} = 5,750 \text{ lbs}$$

$$MS = \frac{1}{\sqrt{R_{\text{Shear}}^2 + R_{\text{Tension}}^2}} - 1 = \frac{1}{\sqrt{\left(\frac{857\text{lbs}}{6500\text{lbs}}\right)^2 + \left(\frac{1187\text{lbs}}{5750\text{lbs}}\right)^2}} - 1 = +3.082$$

4.6 AM-PN-1000-07, Gemini LiDAR Install With Partial RMK Top Film Camera

This engineering installs the camera and support equipment for an Optec Gemini LiDAR system and a RMK Top Film Camera. The installation consists of the -11 Forward Equipment Rack, LiDAR camera, TAS Camera and baggage compartment equipment rack.

4.6.1 -15 Forward Equipment Rack

The forward equipment rack is acceptable per the analysis above. This installation carries a total weight of 50 lbs and the analysis uses a total weight of 150 lbs.

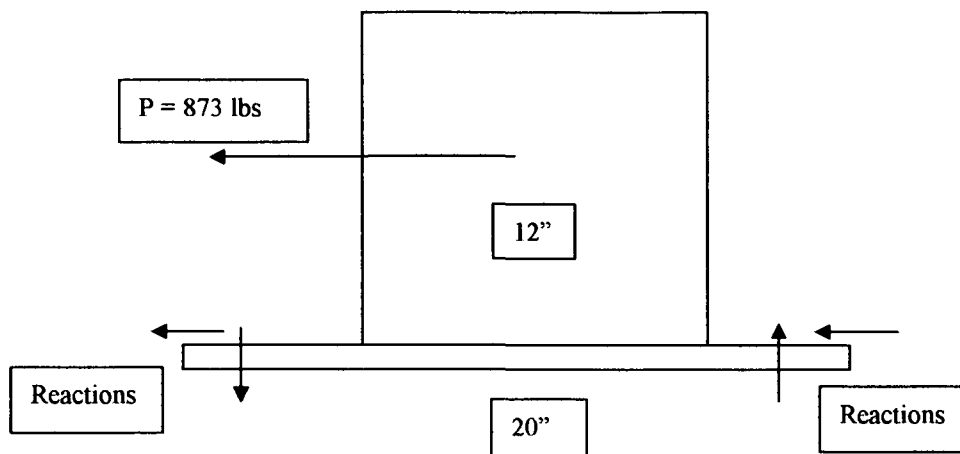
$$MS = 150/50 - 1 = +2.0$$

4.6.2 LiDAR Camera Installation

The LiDAR Camera and its assembly are installed with four AN5 fasteners. The total weight of the unit is 97 lbs. The bolts will react the forward loading in shear split between the four attachments. The kick load will be reacted as a moment/couple. The aft attachments will be critical for shear and tension.

$$P = 97\#(9G) = 873 \text{ lbs}$$

Height of the center of gravity is assumed to be 12 in



Free Body Diagram; LiDAR Camera Installation

Applied loading

$$P_{\text{shear}} = 97\#(9G)/4 \text{ fast} = 218 \text{ lbs}$$

$$P_{\text{tension}} = 97\#(9G)(12\text{'})/(20\text{'}) * 2 \text{ fast} = 262 \text{ lbs}$$

Allowable Loading

$$P_{\text{shear}} = 6,500 \text{ lbs}$$

$$P_{\text{tension}} = 5,750 \text{ lbs}$$

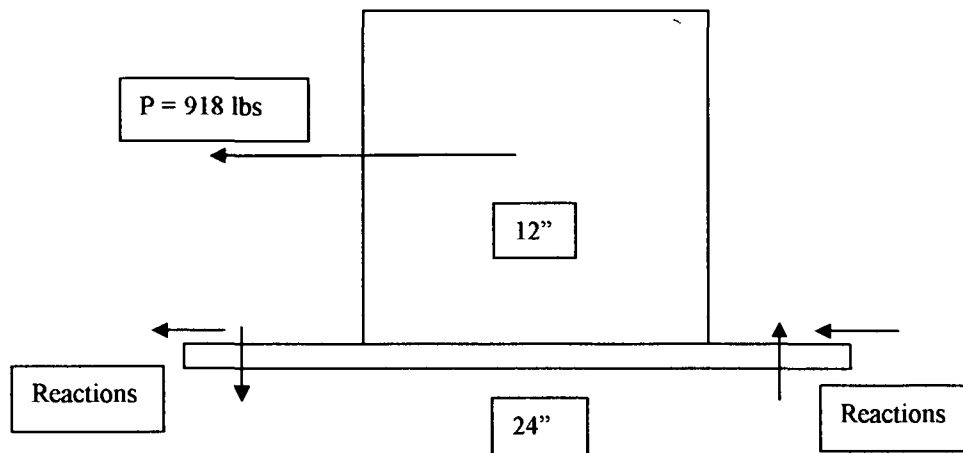
MS = **High**

4.6.3 RMK Camera Installation

The RMK Camera and its assembly is installed with four AN4 fasteners. The total weight of the unit is 102 lbs. The bolts will react the forward loading in shear split between the four attachments. The kick load will be reacted as a moment/couple. The aft attachments will be critical for shear and tension.

$$P = 102\#(9G) = 918 \text{ lbs}$$

Height of the center of gravity is assumed to be 18 in



Free Body Diagram; LiDAR Camera Installation

Applied loading

$$P_{\text{shear}} = 102\#(9G)/4 \text{ fast} = 230 \text{ lbs}$$

$$P_{\text{tension}} = 102\#(9G)(12\text{'})/(24\text{'}) \times 2 \text{ fast} = 230 \text{ lbs}$$

Allowable Loading

$$P_{\text{shear}} = 3,680 \text{ lbs}$$

$$P_{\text{tension}} = 4,800 \text{ lbs}$$

MS = +High

Therefore this engineering is acceptable.

4.7 AM-PN-1000-09, RMK TOP Install With Partial Gemini LiDAR

This engineering installs the camera and support equipment for an Optec Gemini LiDAR system. The installation consists of the -11 Forward Equipment Rack, LiDAR camera, and control box.

4.7.1 -15 Forward Equipment Rack

The forward equipment rack is acceptable per the analysis above. This installation carries a total weight of 51 lbs and the analysis uses a total weight of 100 lbs.

$$MS = 100/51 - 1 = +0.96$$

4.7.2 LiDAR Camera Installation

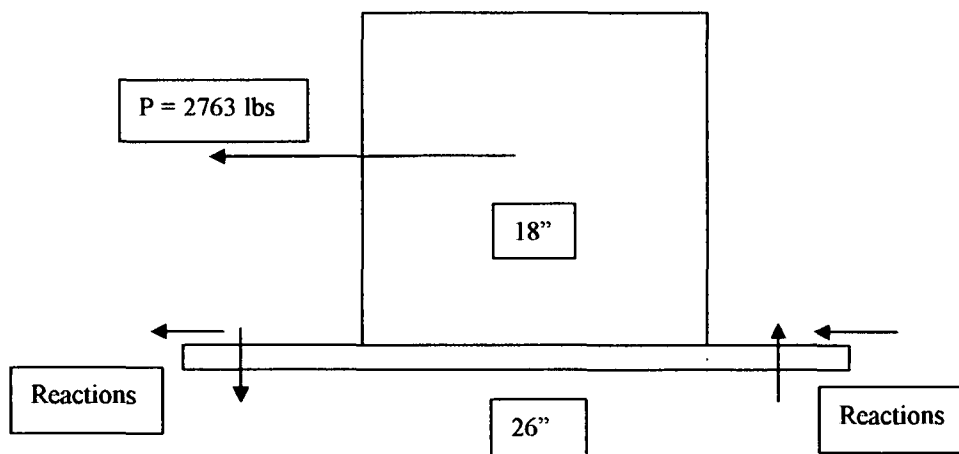
The LiDAR Camera and its assembly are installed with four AN5 fasteners. The total weight of the unit is 97 lbs. The installation is the same as within the -07 installation above.

4.7.3 RMK TOP Camera Installation

The RMK (TAS) Camera and its assembly are installed with four AN5 fasteners. The total weight of the unit is 307 lbs. The bolts will react the forward loading in shear split between the four attachments. The kick load will be reacted as a moment/couple. The aft attachments will be critical for shear and tension.

$$P = 307\#(9G) = 2763 \text{ lbs}$$

Height of the center of gravity is assumed to be 18 in



Free Body Diagram; LiDAR Camera Installation

Applied loading

$$P_{\text{shear}} = 307\#(9G)/4 \text{ fast} = 691 \text{ lbs}$$

$$P_{\text{tension}} = 307\#(9G)(18")/(26"*2\text{fast}) = 956 \text{ lbs}$$

Allowable Loading

P_{shear} = 6,500 lbs

P_{tension} = 5,750 lbs

$$MS = \frac{1}{\sqrt{R_{Shear}^2 + R_{Tension}^2}} - 1 = \frac{1}{\sqrt{\left(\frac{691lbs}{6500lbs}\right)^2 + \left(\frac{956lbs}{5750lbs}\right)^2}} - 1 = +3.082$$

4.8 AM-PN-1000-11, DMC Install With RMK TOP

This engineering installs the camera and support equipment for an DMC system and a RMK Top Film Camera. The installation consists of the -11 Forward Equipment Rack, DMC camera, TAS Camera and baggage compartment equipment rack.

4.8.1 -15 Forward Equipment Rack

The forward equipment rack is acceptable per the analysis above. This installation carries a total weight of 80 lbs and the analysis uses a total weight of 150 lbs.

$$MS = 150/80 - 1 = +0.96$$

4.8.2 TAS Camera Installation

The TAS Camera and its assembly are installed with four AN5 fasteners. The total weight of the unit is 97 lbs. The installation is the same as within the -09 installation above.

4.8.3 DMC Camera Installation

The RMK (TAS) Camera and its assembly are installed with four AN5 fasteners. The total weight of the unit is 307 lbs. The installation is the same as the -05 installation above.

4.9 AM-PN-1000-13, RMK TOP Install With Partial DMC

This engineering installs the camera and support equipment for an DMC system and a RMK Top Film Camera. The installation consists of the -11 Forward Equipment Rack, DMC camera, TAS Camera and baggage compartment equipment rack.

4.9.1 -15 Forward Equipment Rack

The forward equipment rack is acceptable per the analysis above. This installation carries a total weight of 80 lbs and the analysis uses a total weight of 150 lbs.

$$MS = 150/80 - 1 = +0.96$$

4.9.2 TAS Camera Installation

The TAS Camera and its assembly are installed with four AN5 fasteners. The total weight of the unit is 97 lbs. The installation is the same as within the -09 installation above.

4.9.3 DMC Camera Installation

The RMK (TAS) Camera and its assembly are installed with four AN5 fasteners. The total weight of the unit is 307 lbs. The installation is the same as the -05 installation above.

5 Conclusion

This engineering is acceptable for all loading applications. The designs comply with the appropriate design, construction and structural strength requirements imposed by the aircraft's certification basis.

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1. PARTIAL ELECTRIC CORDS OF THE WALKERS WALKING
WALKING WALKS TOGETHER WITH.

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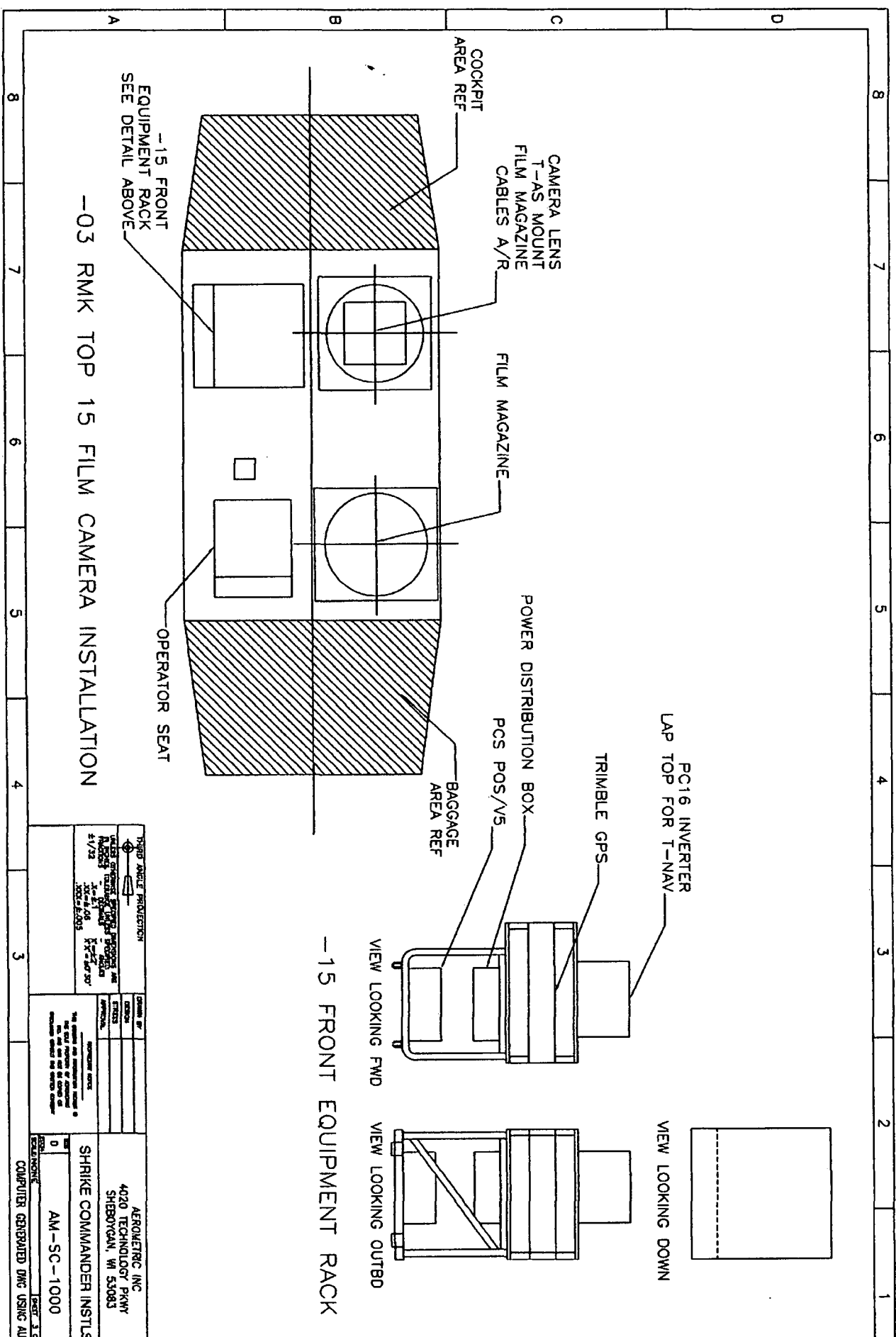
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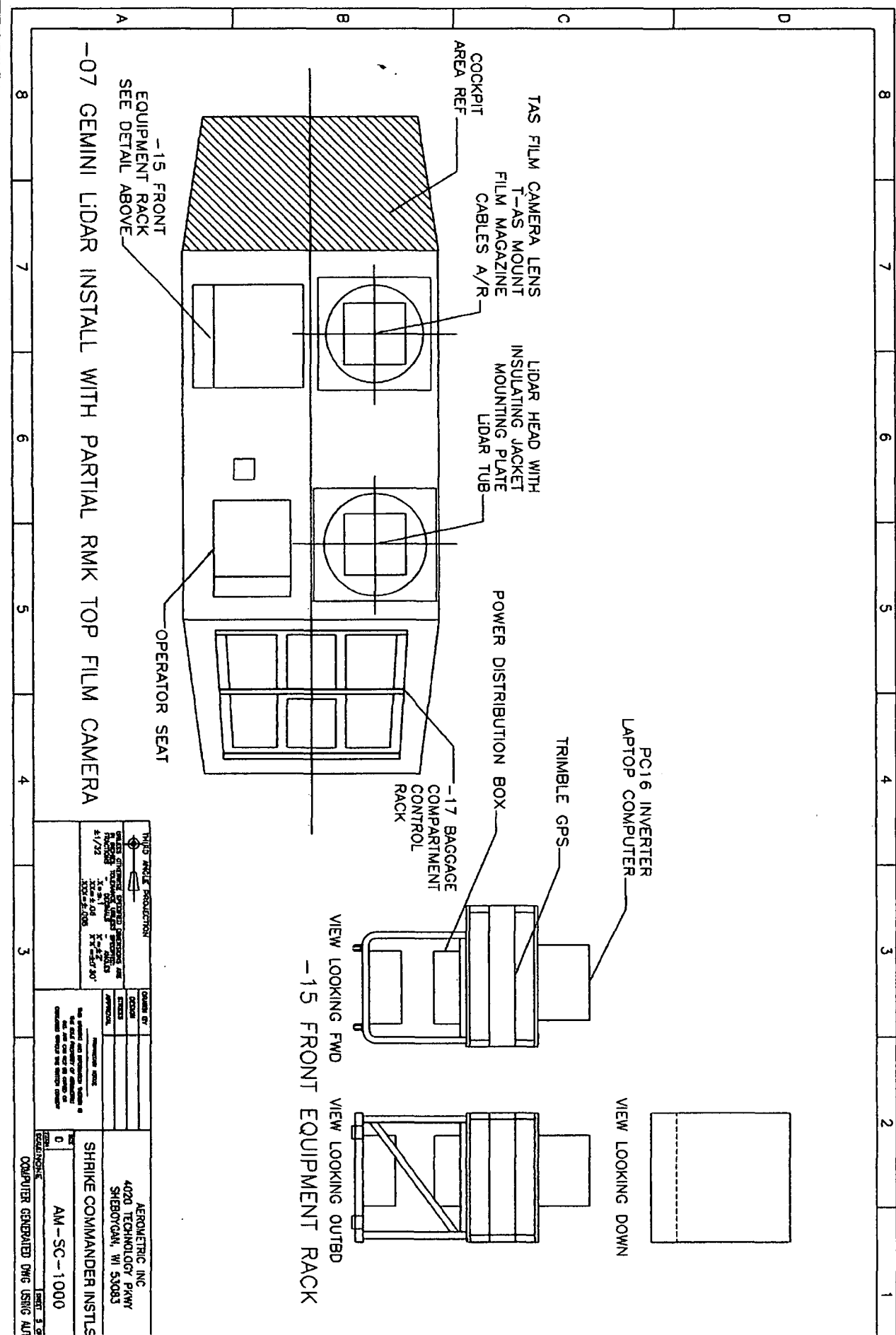
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OTHERWISE SPECIFIED 1/5070602400912917605986812821504" = 1/2535301200456458802993406410752" UNLESS OTHERWISE SPECIFIED 1/10141204801825835211973625643008" = 1/5070602400912917605986812821504" UNLESS OTHERWISE SPECIFIED 1/20282409603651670423947251286016" = 1/10141204801825835211973625643008" UNLESS OTHERWISE SPECIFIED 1/40564819207303340847894502572032" = 1/20282409603651670423947251286016" UNLESS OTHERWISE SPECIFIED 1/81129638414606681695789005144064" = 1/40564819207303340847894502572032" UNLESS OTHERWISE SPECIFIED 1/162259276829213363391578010288128" = 1/81129638414606681695789005144064" UNLESS OTHERWISE SPECIFIED 1/324518553658426726783156020576256" = 1/162259276829213363391578010288128" UNLESS OTHERWISE SPECIFIED 1/649037107316853453566312041152512" = 1/324518553658426726783156020576256" UNLESS OTHERWISE SPECIFIED 1/1298074214633706907132624082305024" = 1/649037107316853453566312041152512" UNLESS OTHERWISE SPECIFIED 1/2596148429267413814265248164610048" = 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U.S. Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020
11/30/2007

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title CFR 43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 44701). Failure to report can result in a civil penalty for each such violation (49 U.S.C. 46301(a)).

1. Aircraft	Nationality and Registration Mark N280MB	Serial No. 3255	
	Make Rockwell International	Model 500-S	Series
2. Owner	Name (As shown on registration certificate) Aero-Metric Inc.	Address (As shown on registration certificate)	
		Address 4020 Technology Pkwy.	
		City Sheboygan	State Wisconsin
		Zip 53083-6049	Country United States

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
☐	☒	AIRFRAME		(As described in item 1 above)	
☐	☐	POWERPLANT			
☐	☐	PROPELLER			
☐	☐	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name	Kevin A Warren- The New Firewall Forward	U.S. Certificated Mechanic	Manufacturer
Address	5212 Cessna Drive	Foreign Certificated Mechanic	C. Certificate No.
City	Loveland State CO	☒ Certificated Repair Station	F4WR655Y
Zip	80538 Country United States	Certificated Maintenance Organization	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per 14 CFR Part 43 App. B ☐ Signature Kevin A Warren Date of Authorized Individual Kevin A Warren 3-4-2008

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport
	FAA Designee	☒ Repair Station	Inspection Authorization	Other (Specify)
Certificate or Designation No. F4WR655Y		Signature <u>Kevin A Warren</u> Date of Authorized Individual Kevin A Warren 3-4-2008		

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N280MB

Nationality and Registration Mark

3-4-2008

Date

A/C Model: 500-S A/C S/N: 3255 Engine Model: TIO-540-J2B Engine S/N: RL-5989-61A, L-4825-61A

Installation of engines, modified with a Firewall Forward Technologies, LLC modified camshaft, into aircraft listed on the AML per Firewall Forward Technologies, LLC Installation Instructions FFT-INI-001-AFR, revision -, dated 02/06/03 or later FAA approved revision per STC SA01435LA. This installation must be done concurrently with STC SE01436LA, which installs the modified camshaft to the engine. For Continued Airworthiness Instructions refer to document number FFT-CAI-001. No weight and balance change. END.

***** NOTHING FOLLOWS *****

☐ Additional Sheets Are Attached

United States Of America
Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

Number SA01435LA

This Certificate issued to Firewall Forward Technologies, LLC.
5212 Cessna Drive
Loveland, CO 80538

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified herein meets the airworthiness requirements of the Federal Aviation Regulations. * See applicable Type Certificate Data Sheet (T.C.D.S.) for certification basis

Original Product Type Certificate Number: *

Make: *

Model: *

* See attached FAA Approved Model List (AML) for list of approved airplane models and applicable T.C.D.S.

Description of Type Design Change Installation of engines, modified with a Firewall Forward Technologies, LLC modified camshaft, into aircraft listed on the AML per Firewall Forward Technologies, LLC Installation Instructions FFT-INI-001-AFR, revision -, dated 02/06/03 or later FAA approved revision. This installation must be done concurrently with STC SE01436LA, which installs the modified camshaft to the engine.

Limitations and Conditions. Compatibility of this design change with previously approved modifications must be determined by the installer. The installation should not be incorporated in any airplane unless it is determined that the interrelationship between this installation and any previously approved configuration will not introduce any adverse effect upon the airworthiness of the aircraft. The approval of this modification applies to the above noted airplane model series only. A copy of this STC must be included in the permanent records of the modified 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.

See continuation page 3.

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 9, 1998

Date received:

Date of issuance: February 14, 2003

Date amended:



By direction of the Administrator

[Signature]

(Signature)

Manager, Propulsion Branch
Los Angeles Aircraft Certification Office

(Title)

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



U.S. Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020
11/30/2007

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title CFR 43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 44701). Failure to report can result in a civil penalty for each such violation (49 U.S.C. 46301(a)).

1. Aircraft	Nationality and Registration Mark N280MB	Serial No. 3255		
	Make Rockwell International	Model 500-S	Series	
2. Owner	Name (As shown on registration certificate) Aero-Metric Inc.	Address (As shown on registration certificate) Address 4020 Technology Pkwy.		
		City Sheboygan	State Wisconsin	Zip 53083-6049

3. For FAA Use Only

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4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
☐	☐	AIRFRAME	_____	(As described in item 1 above)	_____
☐	☒	POWERPLANT	Lycoming	TIO-540-J2B	L-4825-61A
☐	☐	PROPELLER	_____	_____	_____
☐	☐	APPLIANCE	Type _____	_____	_____
			Manufacturer _____	_____	_____

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name Glenn Trostel- The New Firewall Forward	Address 5212 Cessna Drive	U.S. Certificated Mechanic	Manufacturer
City Loveland	State CO	Foreign Certificated Mechanic	C. Certificate No.
Zip 80538	Country United States	☒ Certificated Repair Station	F4WR655Y
		☐ Certificated Maintenance Organization	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per
14 CFR Part 43 App. B ☐

Signature/Date of Authorized Individual

Glenn Trostel 2-28-2008

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport
	FAA Designee	☒ Repair Station	Inspection Authorization	Other (Specify)

Certificate or Designation No.

Signature/Date of Authorized Individual

F4WR655Y

Glenn Trostel 2-28-2008

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N280MB

Nationality and Registration Mark

2-28-2008

Date

A/C Model: 500-S A/C S/N: 3255 Engine Model: TIO-540-J2B Engine S/N: L-4825-61A

Installation of Firewall Forward Technologies, LLC modified camshaft in accordance with Master Drawing List FWF-MDL-ST9721LA-E, revision G, dated 2/14/03 or later FAA approved revision per STC SE01436LA. This installation must be done concurrently with STC SA01435LA, which modifies the airplane installation. For Continued Airworthiness Instructions refer to document number FFT-CAI-001. No weight and balance change, END.

***** NOTHING FOLLOWS *****

☐ Additional Sheets Are Attached

United States Of America
Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

Number SE01436LA

This Certificate issued to Firewall Forward Technologies, LLC.
5212 Cessna Drive
Loveland, CO 80538

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified herein meets the airworthiness requirements of Part 33 of the Federal Aviation Regulations.

Original Product Type Certificate Number: *
Make: *
Model: *
* See attached FAA Approved Model List (AML) for list of approved engine models and applicable T.C.D.S.

Description of Type Design Change: Installation of Firewall Forward Technologies, LLC modified camshaft in accordance with Master Drawing List FWF-MDL-ST9721LA-E, revision G, dated 2/14/03 or later FAA approved revision. This installation must be done concurrently with STC SA01435LA, which modifies the airplane installation.

Limitations and Conditions: Compatibility of this design change with previously approved modifications must be determined by the installer. The installation should not be incorporated in any engine unless it is determined that the interrelationship between this installation and any previously approved configuration will not introduce any adverse effect upon the airworthiness of the aircraft. The approval of this modification applies to the above noted engine model series only. A copy of this STC must be included in the permanent records of the modified engine. 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.
See continuation page 3.

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 9, 1998

Date received:

Date of issuance: February 14, 2003

Date amended:



By Thomas H. Bryant
(Signature)

Manager, Propulsion Branch
Los Angeles 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.



U.S. Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020
11/30/2007

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title CFR 43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 44701). Failure to report can result in a civil penalty for each such violation (49 U.S.C. 46301(a)).

1. Aircraft	Nationality and Registration Mark N280MB	Serial No. 3255	
	Make Rockwell International	Model 500-S	Series
2. Owner	Name (As shown on registration certificate) Aero-Metric Inc.	Address (As shown on registration certificate) Address 4020 Technology Pkwy. City Sheboygan State Wisconsin Zip 53083-6049 Country United States	

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
☐	☐	AIRFRAME		(As described in item 1 above)	
☐	☒	POWERPLANT	Lycoming	TIO-540-J2B	RL-5989-61A
☐	☐	PROPELLER			
☐	☐	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name	Glenn Trostel- The New Firewall Forward	U.S. Certificated Mechanic	Manufacturer
Address	5212 Cessna Drive	Foreign Certificated Mechanic	C. Certificate No.
City	Loveland State CO	☒ Certificated Repair Station	F4WR655Y
Zip	80538 Country United States	Certificated Maintenance Organization	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per
14 CFR Part 43 App. B ☐

Signature/Date of Authorized Individual

Glenn Trostel 2-28-2008

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport
	FAA Designee	☒ Repair Station	Inspection Authorization	Other (Specify)

Certificate or Designation No.

Signature/Date of Authorized Individual

F4WR655Y

Glenn Trostel 2-28-2008

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N280MB

Nationality and Registration Mark

2-28-2008

Date

A/C Model: 500-S A/C S/N: 3255 Engine Model: TIO-540-J2B Engine S/N: RL-5989-61A

Installation of Firewall Forward Technologies, LLC modified camshaft in accordance with Master Drawing List FWF-MDL-ST9721LA-E, revision G, dated 2/14/03 or later FAA approved revision per STC SE01436LA. This installation must be done concurrently with STC SA01435LA, which modifies the airplane installation. For Continued Airworthiness Instructions refer to document number FFT-CAI-001. No weight and balance change, END.

***** NOTHING FOLLOWS *****

☐ Additional Sheets Are Attached

United States Of America
Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

Number SE01436LA

This Certificate is issued to Firewall Forward Technologies, LLC.
5212 Cessna Drive
Loveland, CO 80538

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified herein meets the airworthiness requirements of Federal Aviation Regulations.

Original Product Type Certificate Number *

Make *

Model *

* See attached FAA Approved Model List (AML) for list of approved engine models and applicable T.C.D.S.

Description of Type Design Change. Installation of Firewall Forward Technologies, LLC modified camshaft in accordance with Master Drawing List FWF-MDL-ST9721LA-E, revision G, dated 2/14/03 or later FAA approved revision. This installation must be done concurrently with STC SA01435LA, which modifies the airplane installation.

Limitations and Conditions. Compatibility of this design change with previously approved modifications must be determined by the installer. The installation should not be incorporated in any engine unless it is determined that the interrelationship between this installation and any previously approved configuration will not introduce any adverse effect upon the airworthiness of the aircraft. The approval of this modification applies to the above noted engine model series only. A copy of this STC must be included in the permanent records of the modified engine. 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.

See continuation page 3.

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 9, 1998

Date received:

Date of issuance: February 14, 2003

Date amended:



By direction of the Administrator
Thomas R. Bryant
(Signature)

Manager, Propulsion Branch
Los Angeles Aircraft Certification Office

(File)

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

1. The first part of the document is a list of the names of the persons who have been appointed to the various positions of the Board of Directors of the Corporation. The names are listed in alphabetical order, and each name is followed by the position to which he or she has been appointed. The names are as follows:

Name	Position
Mr. J. H. Smith	President
Mr. W. H. Jones	Vice President
Mr. R. H. Brown	Secretary
Mr. T. H. Green	Treasurer
Mr. L. H. White	Director
Mr. M. H. Black	Director
Mr. N. H. Gray	Director
Mr. O. H. Blue	Director
Mr. P. H. Red	Director
Mr. Q. H. Yellow	Director
Mr. R. H. Purple	Director
Mr. S. H. Pink	Director
Mr. T. H. Brown	Director
Mr. U. H. Green	Director
Mr. V. H. White	Director
Mr. W. H. Black	Director
Mr. X. H. Gray	Director
Mr. Y. H. Blue	Director
Mr. Z. H. Red	Director

2. The second part of the document is a list of the names of the persons who have been appointed to the various positions of the Board of Directors of the Corporation. The names are listed in alphabetical order, and each name is followed by the position to which he or she has been appointed. The names are as follows:

Name	Position
Mr. J. H. Smith	President
Mr. W. H. Jones	Vice President
Mr. R. H. Brown	Secretary
Mr. T. H. Green	Treasurer
Mr. L. H. White	Director
Mr. M. H. Black	Director
Mr. N. H. Gray	Director
Mr. O. H. Blue	Director
Mr. P. H. Red	Director
Mr. Q. H. Yellow	Director
Mr. R. H. Purple	Director
Mr. S. H. Pink	Director
Mr. T. H. Brown	Director
Mr. U. H. Green	Director
Mr. V. H. White	Director
Mr. W. H. Black	Director
Mr. X. H. Gray	Director
Mr. Y. H. Blue	Director
Mr. Z. H. Red	Director



U.S. Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification
GL13 SCM

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000.00 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make ROCKWELL INTL	Model 500-S
	Serial No. 3255	Nationality and Registration Mark N 280MB
2. Owner	Name (As shown on registration certificate) Aero-Metric, Inc.	Address (As shown on registration certificate) 4020 Technology Parkway Sheboygan, WI 53083

3. For FAA Use Only

"THE DATA IDENTIFIED HEREIN COMPLIES WITH THE APPLICABLE AIRWORTHINESS REQUIREMENTS AND IS APPROVED FOR THE ABOVE DESCRIBED AIRCRAFT, SUBJECT TO CONFORMITY INSPECTION BY A PERSON AUTHORIZED IN FAR 43, SECTION 43.7"

DATE June 30, 2005 SIGNATURE [Signature] FAA AGL-FSDO 13

4. Unit Identification

Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	~~~~~ (As described in Item 1 above) ~~~~~				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

5. Type

6. Conformity Statement

A. Agency's Name and Address Skycom Avionics, Inc. 2441 Aviation Drive Waukesha, WI 53188	B. Kind of Agency ☐ U.S. Certificated Mechanic ☐ Foreign Certificated Mechanic ☒ Certificated Repair Station ☐ Manufacturer	C. Certificate No. NC5D062N
---	--	---------------------------------------

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date 6/30/2005	Signature of Authorized Individual <u>[Signature]</u>
--------------------------	--

7. Approval For Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY	FAA Flt Standards Inspector	Manufacturer	Inspection Authorization	Other (Specify)
	FAA Designee	X Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 6/30/05		Certificate or Designation No. NC5D062N	Signature of Authorized Individual <u>[Signature]</u>	

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

A/C MAKE: NORTH AMERICAN
A/C MODEL: AT-6G
A/C S/N: 49-3057
REG. NO.: N 5296V

INSTALLED THE FOLLOWING:

IFR Certification of a Garmin GNS-430 Nav/Com/GPS Receiver VFR installation previously approved on Form 337 dated 06/30/2005 (see attached copy).

Garmin GNS-430 Nav/Com/GPS is TSO'd under TSO# C129 class A1.

Garmin GA-56 GPS Antenna is TSO'd under TSO# C129 class A1.

The Garmin GNS-430 Nav/Com/GPS contains nav software version 2.00 or later FAA approved revision. The GPS system has been ground tested and flight tested (06/30/2005) at the following points with results as follows:

Hartford (HEX) GPS/NDB RWY. 11	Better than .10NM
Watertown (RYV) RWY. 29	Better than .10NM
Waukesha (UES) GPS/VOR-A	Better than .10NM

DOCUMENTATION:

AC43.13-1B chapter 11, paragraphs 424, 429, 443, 450, 519
chapter 15, paragraphs 750, 841, 842
AC43.13-2A chapter 2, paragraphs 21, 22, 23, 27
chapter 3, paragraphs 36, 38(b)

AC20-138A

The installation complies with the requirements of FAR's 23.1301, 23.1307(b), 23.1309(a)(1)&(2), 23.1321, 23.1322, 23.1357, 23.1365, 23.1367 and 23.1431.

The update was done in accordance with Garmin GNS-430 installation manual P/N 190-00140-02 Rev. P, Dated May 2005 (or later)

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS:

- 1) Introduction: GPS GNS-430 for the non-precision approach IFR approval
- 2) Description: Same as above
- 3) Control, operations information: See GNS-430 Pilot Guide P/N 190-00140-00 Rev. G, Dated May 2003 (or later) and FAA approved Flight Manual Supplement dated June 30, 2005.
- 4) Servicing information: N/A
- 5) Maintenance information: N/A
- 6) Troubleshooting information: N/A
- 7) Removal and replacement information: Refer to above installation manual for specific instructions in removal and replacement.
- 8) Diagrams: N/A
- 9) Special inspection requirements: N/A
- 10) Application of Protective Treatments: N/A
- 11) Data: N/A
- 12) List of special tools: N/A
- 13) For Commuter Category: N/A
- 14) Recommended overhaul periods: No additional overhaul limits
- 15) Airworthiness limitation section: No additional airworthiness limits
- 16) Revision: A letter will be submitted to the FSDO with a copy of the revised FAA Form 337 and a revised ICA. The FAA Inspector accepts the change by signing block 3 and including the following statement: "The attached revised/new instructions for Continued Airworthiness dated xx/xx/xxxx for the above aircraft superseding the instructions for Continued Airworthiness dated xx/xx/xxxx". Once the revision has been accepted, a maintenance record entry will be made, identifying the revision, its location and date of the Form 337.
- 17) Assistance: N/A
- 18) Implementation and record keeping: An entry has been entered into the aircraft records in accordance with FAR 43.9

-----END-----

☐ Additional Sheets are Attached



U.S. Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

GL13 DCM

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000.00 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make ROCKWELL INTL	Model 500-S
	Serial No. 3255	Nationality and Registration Mark N 280MB
2. Owner	Name (As shown on registration certificate) Aero-Metric, Inc.	Address (As shown on registration certificate) 4020 Technology Parkway Sheboygan, WI 53083

3. For FAA Use Only

"THE DATA IDENTIFIED HEREIN COMPLIES WITH THE APPLICABLE AIRWORTHINESS REQUIREMENTS AND IS APPROVED FOR THE ABOVE DESCRIBED AIRCRAFT, SUBJECT TO CONFORMITY INSPECTION BY A PERSON AUTHORIZED IN FAR 43, SECTION 43.7"

DATE June 29, 2005 SIGNATURE [Signature] FAA AGL-FSDO 13

4. Unit Identification

5. Type

Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	~~~~~ (As described in Item 1 above) ~~~~~				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address Skycom Avionics, Inc. 2441 Aviation Drive Waukesha, WI 53188	B. Kind of Agency U.S. Certificated Mechanic Foreign Certificated Mechanic ☒ Certificated Repair Station Manufacturer	C. Certificate No. NC5D062N
--	---	--------------------------------

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date
6/29/2005

Signature of Authorized Individual
[Signature]

7. Approval For Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY	FAA Flt Standards Inspector	Manufacturer	Inspection Authorization	Other (Specify)
	FAA Designee	☒ Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 6/30/05		Certificate or Designation No. NC5D062N	Signature of Authorized Individual <u>[Signature]</u>	

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

A/C MAKE: ROCKWELL INTL
A/C MODEL: 500-S
A/C S/N: 3255
REG. NO.: N 280MB

INSTALLED THE FOLLOWING:

1-Shadin Company 910532P Fuel Flow Indicator, (TSO'd C44A) installed at STA# 71.0

1-Shadin Company 680501B Left Fuel Flow Transducer installed at STA# 140.0

1-Shadin Company 680501B Right Fuel Flow Transducer installed at STA# 140.0

The Shadin Company Fuel Flow Indicator was installed and tested in accordance with STC# SE445GL which applies to Lycoming T10-540-J2BD engines. This aircraft has a Lycoming T10-540-J2B engine which has an identical fuel system. The difference in engines is magneto installation..

DOCUMENTATION:

AC43.13-1B chapter 11, paragraphs 424, 429, 443, 450, 519

chapter 15, paragraphs 750, 841, 842

AC43.13-2A chapter 2, paragraphs 21, 22, 23, 27

chapter 3, paragraphs 36, 38(b)

The installation complies with the requirements of FAR's 23.1301, 23.1307(b), 23.1309(a)(1)&(2), 23.1321, 23.1322, 23.1357, 23.1365, 23.1367 and 23.1431.

Shadin Company 910532P Installation Manual/Pilot Guide P/N OP91053C.

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS:

- 1) Introduction: 910532P installed as secondary system
- 2) Description: Same as above
- 3) Control, operations information: See Shadin Company 910532P Installation Manual/Pilot Guide P/N OP91053C.
- 4) Servicing information: N/A
- 5) Maintenance information: N/A
- 6) Troubleshooting information: N/A
- 7) Removal and replacement information: Refer to above installation manual for specific instructions in removal and replacement
- 8) Diagrams: N/A
- 9) Special inspection requirements: N/A
- 10) Application of Protective Treatments: N/A
- 11) Data: N/A
- 12) List of special tools: N/A
- 13) For Commuter Category A/C: N/A
- 14) Recommended overhaul periods: No additional overhaul limits
- 15) Airworthiness limitation section: No additional airworthiness limits
- 16) Revision: A letter will be submitted to the FSDO with a copy of the revised FAA Form 337 and a revised ICA. The FAA Inspector accepts the change by signing block 3 and including the following statement: "The attached revised/new instructions for Continued Airworthiness dated xx/xx/xxxx for the above aircraft superseding the instructions for Continued Airworthiness dated xx/xx/xxxx". Once the revision has been accepted, a maintenance record entry will be made, identifying the revision, its location and date of the Form 337.
- 17) Assistance: N/A
- 18) Implementation and record keeping: An entry has been entered into the aircraft records in accordance with FAR 43.9

-----END-----

☐ Additional Sheets are Attached



U.S. Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

RECEIVED
JUL 5 2005

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

GL13 12 CM

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000.00 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make ROCKWELL INTL	Model 500-S
	Serial No. 3255	Nationality and Registration Mark N 280MB
2. Owner	Name (As shown on registration certificate) Aero-Metric, Inc.	Address (As shown on registration certificate) 4020 Technology Parkway Sheboygan, WI 53083

3. For FAA Use Only

"THE DATA IDENTIFIED HEREIN COMPLIES WITH THE APPLICABLE AIRWORTHINESS REQUIREMENTS AND IS APPROVED FOR THE ABOVE DESCRIBED AIRCRAFT, SUBJECT TO CONFORMITY INSPECTION BY A PERSON AUTHORIZED IN FAR 43, SECTION 43.7"

DATE 6/29/2005 SIGNATURE [Signature] FAA AGL-FSDO 13

4. Unit Identification

5. Type

Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	~~~~~ (As described in Item 1 above) ~~~~~				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
Skycom Avionics, Inc. 2441 Aviation Drive Waukesha, WI 53188	☐ U.S. Certificated Mechanic	NC5D062N
	☐ Foreign Certificated Mechanic	
	☒ Certificated Repair Station	
	☐ Manufacturer	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date
6/29/2005

Signature of Authorized Individual

[Signature]

7. Approval For Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is

☒ APPROVED ☐ REJECTED

BY	FAA Fit Standards Inspector	Manufacturer	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 6/30/05		Certificate or Designation No. NC5D062N	Signature of Authorized Individual [Signature]	

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

A/C MAKE: ROCKWELL INTL
A/C MODEL: 500-S
A/C S/N: 3255
REG. NO.: N 280MB

REMOVED THE FOLLOWING:

1-ARNAV 7000 Moving Map Display from STA# 71.0
1-ARNAV 452-0139 Loran Antenna from STA# 153.5

INSTALLED THE FOLLOWING:

1-Garmin GNS-430 Nav/Com/GPS, (TSO'd C129 class A1) installed at STA# 70.0
1-Garmin GA-56 GPS Antenna, (TSO'd C129 class A1) installed at STA# 153.5
The Garmin GNS-430 Nav/Com/GPS is coupled to the existing Century III Autopilot System and Bendix/King KI-525 HSI. Altitude information is provided via a Trans-Cal SSD-120 Encoder.
Installed placard "GPS FOR VFR USE ONLY" in full view of the pilot.

DOCUMENTATION:

AC43.13-1B chapter 11, paragraphs 424, 429, 443, 450, 519
chapter 15, paragraphs 750, 841, 842
AC43.13-2A chapter 2, paragraphs 21, 22, 23, 27
chapter 3, paragraphs 36, 38(b)

AC20-138A

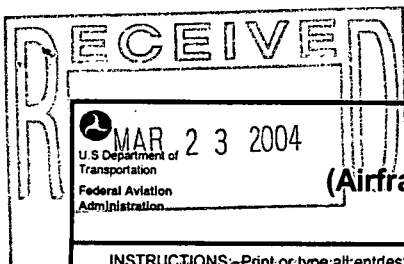
The installation complies with the requirements of FAR's 23.1301, 23.1307(b), 23.1309(a)(1)&(2), 23.1321, 23.1322, 23.1357, 23.1365, 23.1367 and 23.1431.
Garmin GNS-430 installation manual P/N 190-00140-02 Rev. P, Dated May 2005 (or later)

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS:

- 1) Introduction: GPS GNS-430 installed as primary system
- 2) Description: Same as above
- 3) Control, operations information: See GNS-430 Pilot Guide P/N 190-00140-00 Rev. G, Dated April 2003 (or later)
- 4) Servicing information: N/A
- 5) Maintenance information: N/A
- 6) Troubleshooting information: N/A
- 7) Removal and replacement information: Refer to above installation manual for specific instructions in removal and replacement
- 8) Diagrams: N/A
- 9) Special inspection requirements: N/A
- 10) Application of Protective Treatments: N/A
- 11) Data: N/A
- 12) List of special tools: N/A
- 13) For Commuter Category A/C: N/A
- 14) Recommended overhaul periods: No additional overhaul limits
- 15) Airworthiness limitation section: No additional airworthiness limits
- 16) Revision: A letter will be submitted to the FSDO with a copy of the revised FAA Form 337 and a revised ICA. The FAA Inspector accepts the change by signing block 3 and including the following statement: "The attached revised/new instructions for Continued Airworthiness dated xx/xx/xxxx for the above aircraft superseding the instructions for Continued Airworthiness dated xx/xx/xxxx". Once the revision has been accepted, a maintenance record entry will be made, identifying the revision, its location and date of the Form 337.
- 17) Assistance: N/A
- 18) Implementation and record keeping: An entry has been entered into the aircraft records IAW FAR 43.9

-----END-----

☐ Additional Sheets are Attached



MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

G-2-13

INSTRUCTIONS:—Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 or each such violation (Section 901 Federal Aviation Act 1958)

1. Aircraft	Make Twin Commander	Model AC 500S
	Serial No. 3255	Nationality and Registration Mark N280MB
2. Owner	Name (As shown on registration certificate) AERO-METRIC, INC.	Address (As shown on registration certificate) 4020 Technology Parkway Sheboygan, WI 53083

THE DATA IDENTIFIED HEREIN COMPLIES WITH THE
APPLICABLE AIRWORTHINESS REQUIREMENTS AND IS
APPROVED FOR THE ABOVE DESCRIBED AIRCRAFT, SUBJECT
TO CONFORMITY INSPECTION BY A PERSON AUTHORIZED IN
FAR 43, SECTION 43.7.
DATE: March 17, 2004 OFFICE: Milwaukee FSDO GL-13
SIGNATURE: Darrell C. McCullon

4. Unit Identification				5. Type	
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in item 1 above)			☐	☒
POWERPLANT				☐	☐
PROPELLER				☐	☐
APPLIANCE	Type			☐	☐
	Manufacturer			☐	☐

6. Conformity Statement		
A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
Robert S. Ringel 1620 Cambridge Ave. Sheboygan, WI 53081	☒ U.S. Certified Mechanic ☐ Foreign Certified Mechanic ☐ Certified Repair Station ☐ Manufacturer	AP27225511A

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date March 17, 2004	Signature of Authorized Individual <u>Robert S. Ringel</u>
------------------------	---

7. Approval for Return to Service					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED					
BY	☐ FAA Fit Standards Inspector	☐ Manufacturer	☒ Inspection Authorization	Other (Specify)	
	☐ FAA Designee	☐ Repair Station	☐ Person Approved by Transport Canada Airworthiness Group		
Date of Approval or Rejection March 19, 2004		Certificate or Designation No. AP27225511A	Signature of Authorized Individual <u>Robert S. Ringel</u>		

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

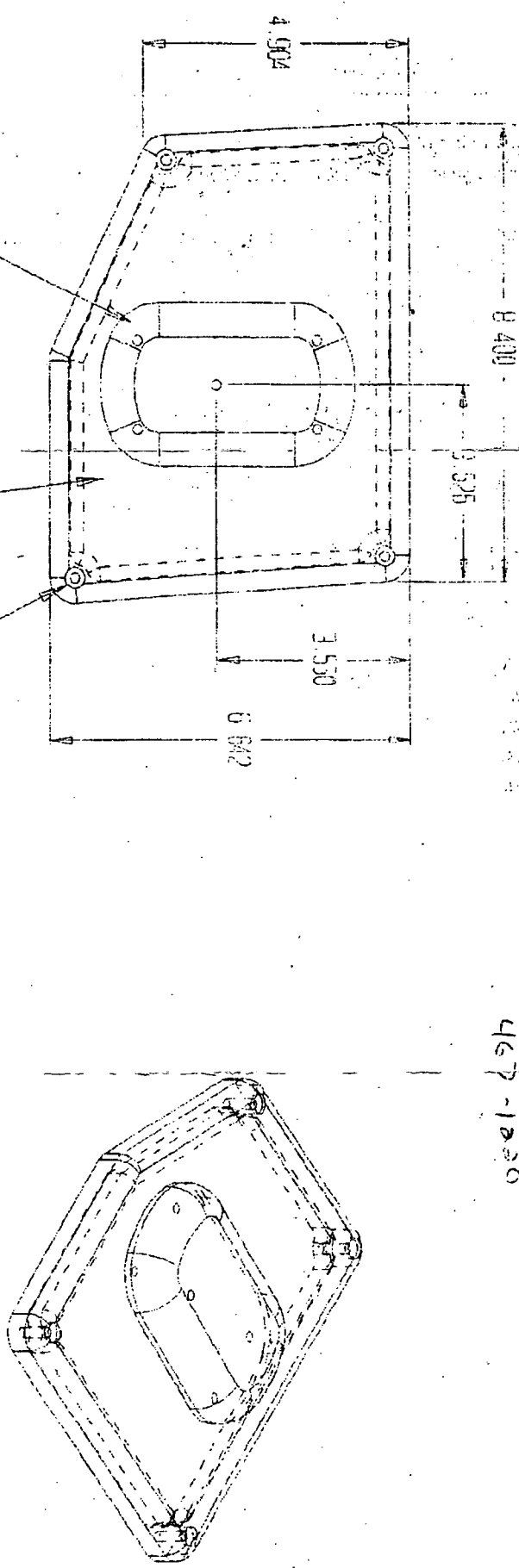
8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

- 1) Installed Novatel GPS-512 GPS antenna along with external mounting plate in accordance with AC43.13-2A.
- 2) The above installation was accomplished by installing the mounting plate and antenna at FS. #121.0 and RWS. #11.5. See attached drawings. The plate is secured by (4) 10/32 countersunk screws that are anchored in a fuselage stringer on the inboard side and by a wing stringer on the outboard side of the plate. A 3/4" hole in the fuselage under the mounting plate is necessary for the antenna coax connection at this same location.
- 3) This GPS antenna is not used for navigational purposes. This installation supports data acquisition of camera equipment installed in the aft camera hole IAW STC SA1182SW.
- 4) N/A
- 5) This installation will be inspected at each annual or 100 hour inspection as listed in FAR 43 Appendix D.
- 6) N/A
- 7) N/A
- 8) N/A
- 9) N/A
- 10) N/A
- 11) N/A
- 12) N/A
- 13) N/A
- 14) N/A
- 15) N/A
- 16) N/A

☒ Additional Sheets Are Attached

Att. Rob R from Dave H @ Stipe
467-1230



OCT 23 2000

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATIONForm Approved
Budget Bureau No. 04-R060.1

MAJOR REPAIR AND ALTERATION

(Airframe, Powerplant, Propeller, or Appliance)

FOR FAA USE ONLY

OFFICE IDENTIFICATION

GL13

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.

1. AIRCRAFT	MAKE Rockwell Commander	MODEL 500S
	SERIAL NO. 3255	NATIONALITY AND REGISTRATION MARK N280MB
2. OWNER	NAME (As shown on registration certificate) Aero Metric	ADDRESS (As shown on registration certificate) 4020 Technology Parkway Sheboygan, WI 53083

3. FOR FAA USE ONLY

4. UNIT IDENTIFICATION

5. TYPE

UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
				REPAIR	ALTERATION
AIRFRAME	***** (As described in item 1 above) *****				XX
POWERPLANT					
PROPELLER					
APPLIANCE					

6. CONFORMITY STATEMENT

A. AGENCY'S NAME AND ADDRESS	B. KIND OF AGENCY	C. CERTIFICATE NO.
Robert S. Ringel 1620 Cambridge Ave. Sheboygan, WI 53081	☒ U.S. CERTIFICATED MECHANIC	AP3927051521A
	☐ FOREIGN CERTIFICATED MECHANIC	
	☐ CERTIFICATED REPAIR STATION	
	☐ MANUFACTURER	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

DATE 10/20/00	SIGNATURE OF AUTHORIZED INDIVIDUAL Robert S. Ringel
-------------------------	---

7. APPROVAL FOR RETURN TO SERVICE

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	☒ INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNEE	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	
DATE OF APPROVAL OR REJECTION 10/20/00		CERTIFICATE OR DESIGNATION NO. AP3927051521A	SIGNATURE OF AUTHORIZED INDIVIDUAL Robert S. Ringel	

NOTICE

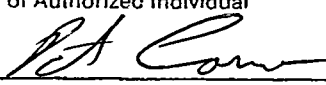
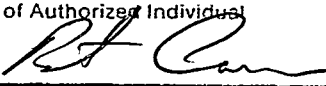
Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

JANITROL COMBUSTION HEATER P/N FR62D95-1BEL, MODEL
NO. B3500 INSTALLED IN ACCORDANCE WITH JANAERO
DEVICES SERVICE LETTER # A-101 (TECHNICAL CONTENT FAA APPROVED)

☐ ADDITIONAL SHEETS ARE ATTACHED

FAA

 MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				Form Approved OMB No. 2120-0020	
				For FAA Use Only	
				Office Identification GL-13	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).					
1. Aircraft	Make ROCKWELL			Model 500-S	
	Serial No. 3255			Nationality and Registration Mark N 280MB	
2. Owner	Name (As shown on registration certificate) AERO METRIC			Address (As shown on registration certificate) 4708 N. 40TH STEET SHEBOYGAN, WI 53082	
3. For FAA Use Only					
4. Unit Identification					5. Type
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	~~~~~ (As described in Item 1 above) ~~~~~				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				
6. Conformity Statement					
A. Agency's Name and Address			B. Kind of Agency		C. Certificate No.
SKYCOM AVIONICS, INC. 501 BLUEMOUND ROAD WAUKESHA, WI 53188			☐ U.S. Certificated Mechanic ☐ Foreign Certificated Mechanic ☒ Certificated Repair Station ☐ Manufacturer		NC5D062N
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
Date 10-15-97			Signature of Authorized Individual 		
7. Approval for Return To Service					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED					
BY	FAA Fit. Standards Inspector	Manufacturer	Inspection Authorization		
	FAA Designee	☒ Repair Station	☐ Person Approved by Transport Canada Airworthiness Group Other (Specify)		
Date of Approval or Rejection 10/15/97		Certificate or Designation No. NC50062N	Signature of Authorized Individual 		

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

A/C MAKE : ROCKWELL
A/C MODEL: 500S
A/C S/N : 3255
A/C REG.#: N 280MB

REMOVED AN IDC 571-25005-02 ENCODING ALTIMETER S/N 2003.

COMPLETED INSTALLATION OF A TRANS-CAL SSD120 BLIND ENCODER.
CHANGED WIRING TO MATCH TRANS-CAL INSTALLATION MANUAL.

THE TRANS-CAL BLIND ENCODER WAS TESTED WITH AN UNITED INSTRUMENTS 5934P-3A-8G ALTIMETER AND MEETS THE REQUIREMENTS OF FAR 91.217B. THE ENCODER IS TSO'D UNDER TSO #C88A. THE ALTIMETER WAS TESTED TO 35,000 FT. ON 10/15/97.

THE ENCODER IS WIRED TO THE EXISTING KING -76A TRANSPONDER WHICH IS TSO'D UNDER TSO# C74B. THIS INSTALLATION INSPECTED PER FAR 91.411 THIS DATE AND MEETS THE REQUIREMENTS OF 43, APPENDIX F AND FAR 43, APPENDIX E.

A COMPLETE INTEGRATED SYSTEM CHECK WAS PERFORMED AND FOUND TO BE IN PROPER WORKING ORDER.

ALL WORK WAS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION MANUAL AND APPLICABLE PARTS OF AC 43.13-2A.

COMPLETED LOG ENTRY.

----- END -----

☐ Additional Sheets Are Attached



US Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

GL09

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make	Model
	Rockwell Int'l.	500S
	Serial No.	Nationality and Registration Mark
	3255	USA N280MB
2. Owner	Name (As shown on registration certificate)	Address (As shown on registration certificate)
	Aerometric Engineering, Inc.	4708 North 40th Street Sheboygan, Wisconsin 53081

3. For FAA Use Only

4. Unit Identification				5. Type	
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	~~~~~ (As described in Item 1 above) ~~~~~				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type	RECEIVED APR 8 1996 FAA GRS P500			
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
Mayday Avionics, Inc. 5500 44th Street S.E. Grand Rapids, Michigan 49512	☐ U.S. Certificated Mechanic	IT5R947M Radio 1, 2, 3 Instrument Ltd.
	☐ Foreign Certificated Mechanic	
	☒ Certificated Repair Station	
	☐ Manufacturer	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date	Signature of Authorized Individual
3-29-96	<i>Kenneth R. Malone</i> Kenneth R. Malone

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY	FAA Flt. Standards Inspector	Manufacturer	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection		Certificate or Designation No.	Signature of Authorized Individual	
3-29-96		IT5R947M	<i>Kenneth R. Malone</i> Kenneth R. Malone	

NOTICE

Removed the Bendix King KWX40 Weather Radar System and installed the Bendix/King RDS81 Weather Radar System. The RDS81 system consists of the IN812A Indicator and the RS81A Receiver/Transmitter/Antenna. The RDS81 is TSO'd per C63b.

This installation was done per the Bendix/King RDS81 Installation Manual using AC43-13-1A, Chapter 11, Section 3 & 7 and AC43-13-2A, Chapter 2 as a guideline.

```
The aircraft was weighed after this installation. The log  
book entry has been completed.  
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>END<<<<<<<<<<<<<<<<<<
```

*U.S.GPO:1994-568-012/00019



US Department
of Transportation
Federal Aviation
Administration

APR 23 1996 MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

EL13

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make AERO COMMANDER	Model 500S
	Serial No. 3255	Nationality and Registration Mark N280MB
2. Owner	Name (As shown on registration certificate) AERO METRIC INC.	Address (As shown on registration certificate) 4708 N. 40TH. ST. SHEBOYGAN WISC. 53083

3. For FAA Use Only

4. Unit Identification

Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	~~~~~ (As described in Item 1 above) ~~~~~				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address STEVE BUTZEN # N6214 RESOURCE DR. SHEBOYGAN FALLS WIS 53085	B. Kind of Agency ☒ U.S. Certificated Mechanic ☐ Foreign Certificated Mechanic ☐ Certificated Repair Station ☐ Manufacturer	C. Certificate No. 397568310
--	--	--

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date 4/15/96	Signature of Authorized Individual Steve B. Butzen 397568310
------------------------	--

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY	FAA Fit. Standards Inspector	Manufacturer	☒ Inspection Authorization Person Approved by Transport Canada Airworthiness Group	Other (Specify)
	FAA Designee	Repair Station		
Date of Approval or Rejection 4/15/96		Certificate or Designation No. 1A397568310	Signature of Authorized Individual Steve Butzen 1A397568310	

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

THIS AIRCRAFT HAS BEEN PREVIOUSLY APPROVED FOR A
GILL 6381E BATTERY SEE 337 DATED JULY 14 1993
REMOVED THIS BATTERY & REPLACED IT WITH
A CONCORDE RG 380E/40 SEALED BATTERY.

NOTE 1. GILL 6381E IS AN APPROVED BATTERY IN
THE 690 COMMANDER. BY THE FAA.

NOTE 2. THE CONCORDE RG 380E/40 IS APPROVED
IN THE 690 AS A REPLACEMENT FOR THE 6381E
PMA DATED 4/9/96

NOTE 3. THE CONCORDE RG 380E/40 IS EQUAL TO
OR GREATER THAN THE 6381E.

CHANGED WEIGHT & BALANCE TO REFLECT
+ 5/6 DIFFERENCES

STEVE BUTZOW 1A 397568310

END

☐ Additional Sheets Are Attached

ES

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance) US Department of Transportation Federal Aviation Administration JAN 27 1995				Form Approved OMB No. 2120-0020	
				For FAA Use Only	
				Office Identification GL 13	

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make Rockwell International	Model COMMANDER 500S
	Serial No. 3255	Nationality and Registration Mark USA N280MB
2. Owner	Name (As shown on registration certificate) HERO Metric ENGINEERING INC	Address (As shown on registration certificate) 4708 N. 46th St. SHEBOYGAN WISC 53081

3. For FAA Use Only

4. Unit Identification				5. Type	
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	~~~~~ (As described in Item 1 above) ~~~~~				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address STEVE BUTZEN SHEBOYGAN CITY AIRPORT N6216 RESOURCE DRIVE SHEBOYGAN FALLS WISC 53085	B. Kind of Agency ☒ U.S. Certificated Mechanic ☐ Foreign Certificated Mechanic ☐ Certificated Repair Station ☐ Manufacturer	C. Certificate No. 397 568310
--	--	--

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date 1/25/95	Signature of Authorized Individual Steve Butzen HEP 397568310
---	--

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY	FAA Fit. Standards Inspector	Manufacturer	X	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	

Date of Approval or Rejection 1/25/95	Certificate or Designation No. 1H397568310	Signature of Authorized Individual Steve Butzen IH 397568310
--	---	---

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

INSTALLED A GPS ANTENNA BY ACCUNAV PART #
AT 575-9 SERIAL # 7034 AT STATION 65.0 AT
10.5 LEFT OF CENTER

THE WEIGHT CHANGE (+50g) WAS DETERMINED TO
BE NEGLIGIBLE

THIS ANTENNA IS NOT TO BE USED FOR NAVIGATION,
BUT TO TRIGGER A CAMERA SHUTTER AT PRECISE
LOCATIONS

ALL WORK DONE IAW. AC 43.13-2A
CHAPTER 3 & ACCEPTED INDUSTRY STANDARDS

Steve Butzen JA397568310

END

☐ Additional Sheets Are Attached

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)		Form Approved OMB No. 2120-0020	
		For FAA Use Only	
		Office Identification GLO9	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).			
1. Aircraft	Make Rockwell International	Model 500S	
	Serial No. 3255	Nationality and Registration Mark USA N280MB	
2. Owner	Name (As shown on registration certificate) Aerometric Engineering, Inc.		Address (As shown on registration certificate) 4708 North 40th Street Sheboygan, Wisconsin 53081
	3. For FAA Use Only "The data identified herein complies with the applicable airworthiness requirements and is approved for the above described aircraft, subject to conformity inspection by a person authorized in FAR Part 43, Section 43.7."		
GRR FSDO		MAR 13 1995	<i>[Signature]</i>
District Office		Signature of FAA Inspector Type	
Unit	Make	Model	Serial No.
AIRFRAME	(As described in item 1 above)		Repair
POWERPLANT			Alteration
PROPELLER			X
APPLIANCE	Type	RECEIVED MAR 31 1995 FAA GRR FSDO GRAND RAPIDS, MICHIGAN	
	Manufacturer		
6. Conformity Statement			
A. Agency's Name and Address MAYDAY AVIONICS, INC. 5500 44TH STREET, S.E. GRAND RAPIDS, MI 49512		B. Kind of Agency	
		C. Certificate No.	
		☐ U.S. Certificated Mechanic ☐ Foreign Certificated Mechanic ☒ Certificated Repair Station ☐ Manufacturer	
		☐ IT5R947M ☐ RADIO 1,2,3 ☐ INSTRUMENT LIM	
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.			
Date 3-29-95		Signature of Authorized Individual <i>[Signature: Kenneth Malone]</i>	
7. Approval for Return To Service			
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED			
BY	FAA Fit. Standards Inspector	Manufacturer	Inspection Authorization
	FAA Designee	Repair Station	Person Approved by Transport Canada Airworthiness Group
Date of Approval or Rejection 3-29-95		Signature of Authorized Individual <i>[Signature: Kenneth Malone]</i>	
Certificate or Designation No. IT5R947M			

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished
(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Approval to enable the previously installed Ryan
International ATS9000 TCAD System.

Reference 337 form dated 2-3-95 on this aircraft for
further details on this installation. The approval basis
for this installation is STC SA1763GL. Aircraft Flight
Manual Supplement dated MAR 2-0 1995 is required for this
installation.

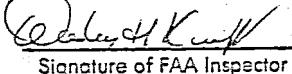
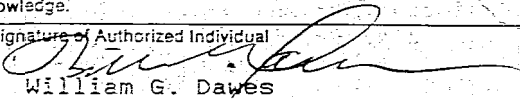
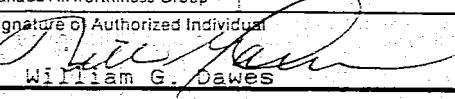
*****END*****

RECEIVED

MAY 18 1995

GRAND RAPIDS, MICHIGAN
FAA GRR FSDO

☐ Additional Sheets Are Attached

 US Department of Transportation Federal Aviation Administration		MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)		Form Approved OMB No. 2120-0020 For FAA Use Only Office Identification G109	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).					
1. Aircraft	Make	Rockwell International		Model	500S
	Serial No.	3255		Nationality and Registration Mark	USA N280ME
2. Owner	Name (As shown on registration certificate)			Address (As shown on registration certificate)	
	Aerometric Engineering, Inc.			4708 North 40th Street Sheboygan, Wisconsin 53081	
"The data identified herein comply with the applicable airworthiness requirements and is approved for the above described aircraft, subject to conformity inspection by a person authorized in FAR Part 43, Section 43.7."					
GRR FSDO District Office		FEB 03 1995		 Signature of FAA Inspector	
4. Unit Identification					
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in Item 1 above)				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				
6. Conformity Statement					
A. Agency's Name and Address		B. Kind of Agency		C. Certificate No.	
MAYDAY AVIONICS, INC.		U.S. Certificated Mechanic		IT5R947M	
5500 44TH STREET, S.E.		Foreign Certificated Mechanic		RADIO 1,2,3	
GRAND RAPIDS, MI 49512		X Certificated Repair Station		INSTRUMENT LIM	
		Manufacturer			
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
Date 2-3-95		Signature of Authorized Individual  William G. Dawes			
7. Approval for Return To Service					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED					
BY	FAA FIT Standards Inspector	Manufacturer	Inspection Authorization	Other (Specify)	
	FAA Designee	X Repair Station	Person Approved by Transport Canada Airworthiness Group		
Date of Approval or Rejection 2-3-95		Certificate or Designation No. IT5R947M	Signature of Authorized Individual  William G. Dawes		

NOTICE
Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

Description of Work Accomplished
(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

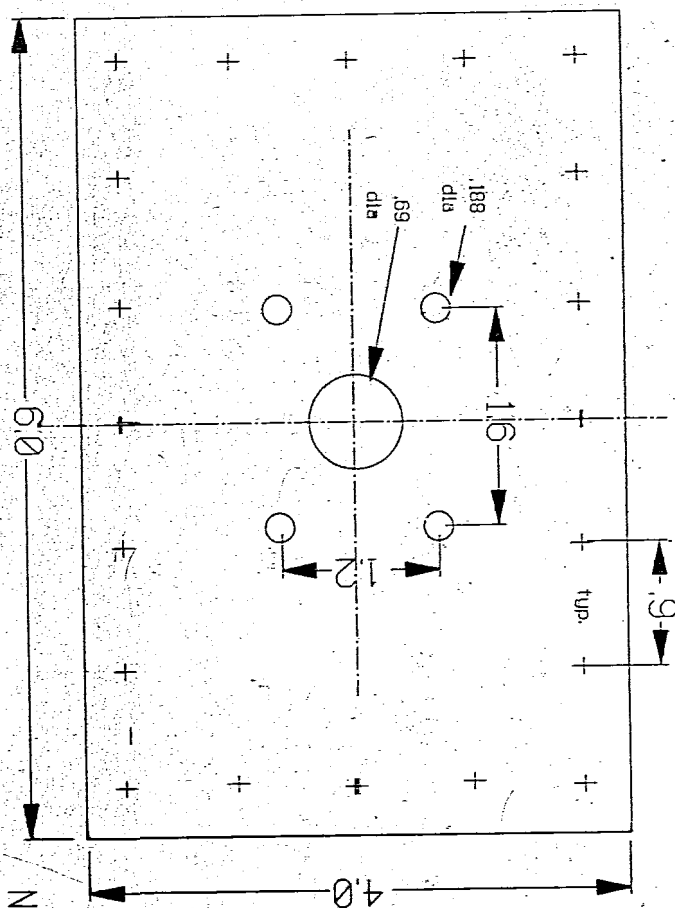
Removed Sigtronics SPA400 and installed Northern Airborne Technologies AA80 Intercom System. The unit is located an existing instrument hole below the transponder in the pilot's instrument panel. It was installed per the Northern Airborne Technologies Installation-Instructions using AC43-13-1A, Chapter 11, Section 3 & 7 and AC43-13-2A, Chapter 2 as a guideline.

The Display is located in an existing hole in the pilot's instrument panel. The Receiver/Computer is located on the an existing shelf in the nose of the aircraft at station -10.0. The CI305 Antennas are located on top of the aircraft at station 93 and on the bottom of the aircraft at station 43. Reference Mayday Avionics Drawing 23807 for further details on their mounting and doubler plates.

At this time the ATS9000 System has been disabled by tripping the TCAD circuit breaker.

[illegible]

U.S. GOVERNMENT PRINTING OFFICE: 1992-769-012/60157



NOTE: 2 EACH INSTALLED

A/C SKIN-2024T3 .020/.025
DOUBLER-2024T3 .032
RIVETS-AN470AD4 20 ea.
F.S. TOP -93
F.S. BOTTOM-43
NON-PRESSURIZED A/C

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		C1305	
DECIMALS XX ± .05 XXX ± .010	ANGULAR ± .05	MAYDAY AVIONICS, INC. 5500 44TH ST. S.E. GRAND RAPIDS, MI 49512 (616) 957-4920	
DO NOT SCALE DRAWING			
DRAWN BY RB	DATE 2-1-95	SIZE W/O	DWG NO. 23807
CHECKED BY		REV	
SCALE NONE		REC 280MB	S/N 3255
		SHEET 1	OF 1



MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

GL-19

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make	Rockwell International	Model	COMMANDER 500S
	Serial No.	3255	Nationality and Registration Mark	USA N280MB
2. Owner	Name (As shown on registration certificate)		Address (As shown on registration certificate)	
	AERO METRIC ENGINEERING INC		4708 N. 40th St. SHEBOYGAN WIS 53081	

3. For FAA Use Only

4. Unit Identification

5. Type

Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in Item 1 above)				XX
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
STEVE BUTZEN SHEBOYGAN City Airport N. 6216 RESERVE DRIVE SHEBOYGAN FALLS WIS 53085	☒ U.S. Certified Mechanic	397568310
	☐ Foreign Certified Mechanic	
	☐ Certified Repair Station	
	☐ Manufacturer	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date	Signature of Authorized Individual
1/25/95	Steve Butzen A/P 397568310

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY	FAA Fit. Standards Inspector	Manufacturer	☒ Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection		Certificate or Designation No.	Signature of Authorized Individual	
1/25/95		1A397568310	Steve Butzen 1A397568310	

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

INSTALLED A NAVIGATION PORT BETWEEN
STATIONS 85.4 AND 100.0 AND 12.375 LEFT OF
CENTER. ALL WORK DONE IAW. MASTER
DRAWING 51125 1 THRU 4 DATED 11/15/92
AND STC SA 1332SW AC43-13 AND
ACCEPTED INDUSTRY STANDARDS
WEIGHT CHANGE DETERMINED TO BE NEGLIGABLE.

Steve Butler 1A397568310

END

☐ Additional Sheets Are Attached

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				Form Approved OMB No. 2120-0020 For FAA Use Only Office Identification GL13	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).					
1. Aircraft	Make	Rockwell International		Model COMMANDER 500S	
	Serial No.	3255		Nationality and Registration Mark USA N2P04B	
2. Owner	Name (As shown on registration certificate) HERO METRIC ENGINEERING INC.		Address (As shown on registration certificate) 4708 N. 40TH ST. SHEBOYGAN WIS 53081		
	3. For FAA Use Only				
4. Unit Identification					
Unit	Make	Model		Serial No.	5. Type Repair Alteration
AIRFRAME	(As described in Item 1 above)				XX
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				
6. Conformity Statement					
A. Agency's Name and Address Steve Butzen SHEBOYGAN City Airport 16216 RESOURCE DRIVE SHEBOYGAN Falls WIS 53085		B. Kind of Agency ☒ U.S. Certified Mechanic ☐ Foreign Certified Mechanic ☐ Certified Repair Station ☐ Manufacturer		C. Certificate No. 397568310	
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
Date 12/1/94		Signature of Authorized Individual Steve Butzen A3P397568310			
7. Approval for Return To Service					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED					
BY	FAA Fit Standards Inspector	Manufacturer	☒	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 12/1/94		Certificate or Designation No. 1A397568310		Signature of Authorized Individual Steve Butzen 1A397568310	

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

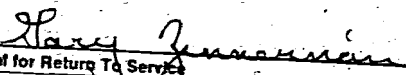
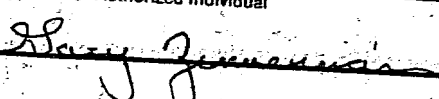
(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Replaced O Ring Seals in the landing
gear lower Struts 1A0 Gulfstream Aerospace
technologies Drawing List GSDL-001, Rev. A.
Dated Aug 10 1992 and install instructions
GSI-001 Rev. A dated Aug 10 1992 Listed per
STC # SA84535W

no weight change
Steve Butyr AS/397528320

END

☐ Additional Sheets Are Attached

 DEC - 6 1994		MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)		Form Approved OMB No. 2120-0020	
U.S. Department of Transportation Federal Aviation Administration				For FAA Use Only Office Identification 6-113	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).					
1. Aircraft		Make ROCKWELL INTERNATIONAL		Model 500S	
		Serial No. 3255		Nationality and Registration Mark N280MB	
2. Owner		Name (As shown on registration certificate) AERO METRIC ENGINEERING INC		Address (As shown on registration certificate) 4708 NORTH 40TH STREET SHEBOYGAN, WISCONSIN 53081	
3. For FAA Use Only					
4. Unit Identification					
Unit	Make	Model	Serial No.	5. Type	
				Repair	Alteration
AIRFRAME	(As described in Item 1 above)				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				
A. Agency's Name and Address		B. Kind of Agency		C. Certificate No.	
JET AIR CORPORATION 1921 AIRPORT DRIVE GREEN BAY, WISCONSIN 54313		☐ U.S. Certificated Mechanic ☐ Foreign Certificated Mechanic ☒ Certified Repair Station Manufacturer		CRS MZ2R023L	
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
Date		Signature of Authorized Individual			
DECEMBER 1, 1994					
7. Approval for Return To Service					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is: ☒ APPROVED ☐ REJECTED					
BY	FAA Fit. Standards Inspector	Manufacturer	Inspection Authorization	Other (Specify)	
	FAA Designee	X Repair Station	Person Approved by Transport Canada Airworthiness Group		
Date of Approval or Rejection		Certificate or Designation No.	Signature of Authorized Individual		
DECEMBER 1, 1994		MZ2R023L			

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

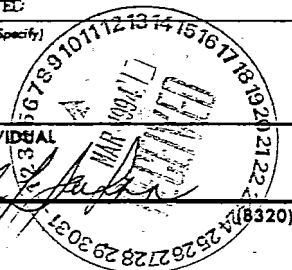
(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

INSTALLED FAA/TSO-C96 APPROVED WHELEN ANTI-COLLISION LIGHT ASSY, PART NUMBER 90033-5 ON BOTTOM OF AIRCRAFT AT F.S. 207.0. ALL WORK ACCOMPLISHED IN ACCORDANCE WITH AC 43.13.1A CHAPTER 11 SECTION 1,2,3 AND AC 43.13.2A CHAPTER 4. NO WEIGHT AND BALANCE CHANGE.

END

☐ Additional Sheets Are Attached

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				Form Approved Budget Bureau No. 04-R060.1	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				FOR FAA USE ONLY	
				OFFICE IDENTIFICATION CLL/PA	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.					
1. AIRCRAFT	MAKE	Rockwell		MODEL	500S
	SERIAL NO.	3255		NATIONALITY AND REGISTRATION MARK	USA N280MB
2. OWNER	NAME (As shown on registration certificate)		ADDRESS (As shown on registration certificate)		
	Aero-Metric Engineering, Inc.		4708 North 40th Street Sheboygan, WI 53081		
3. FOR FAA USE ONLY					
4. UNIT IDENTIFICATION					
UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
AIRFRAME	***** (As described in item 1 above) *****			REPAIR	ALTERATION
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS		B. KIND OF AGENCY		C. CERTIFICATE NO.	
National Flight Services, Inc. 10971 E. Airport Services Rd. Swanton, Ohio 43558		U.S. CERTIFICATED MECHANIC		DSCR311D	
		FOREIGN CERTIFICATED MECHANIC			
		☒ CERTIFICATED REPAIR STATION			
		MANUFACTURER			
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
DATE		SIGNATURE OF AUTHORIZED INDIVIDUAL			
3/4/94		Carl L. Jackson <i>Carl L. Jackson</i>			
7. APPROVAL FOR RETURN TO SERVICE					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED:					
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION	OTHER (Specify)	
	FAA DESIGNEE	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION		CERTIFICATE OR DESIGNATION NO.	SIGNATURE OF AUTHORIZED INDIVIDUAL		
3/4/94		DSCR311D	Carl L. Jackson <i>Carl L. Jackson</i>		



NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

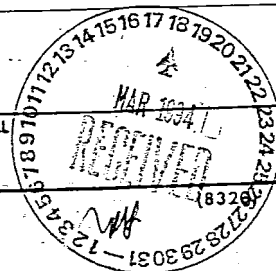
8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Installed new wing lower spar cap by Aviadesign STC# SA00035SE, Reinforcement Kit SN: 502 per drawing AD-AC-0191 and installation instructions AD-AC-0194 issue B, AD-AC-0193 issue C, Certificate No. 6A1. Installed new #7 stringer, PN: 170045-31. Replaced R/H aft inbd wing skin, center fuselage skin with new as removed 2024T3 .063 aluminum. All work accomplished by STC and Standard Practices 43.13-2A. Weight and balance revised.

*****END*****

☐ ADDITIONAL SHEETS ARE ATTACHED

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				Form Approved Budget Bureau No. 04-R060.1	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				FOR FAA USE ONLY ☒	
				OFFICE IDENTIFICATION CLE FSDO GL-25	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.					
1. AIRCRAFT	MAKE	Rockwell International		MODEL	Commander 500S
	SERIAL NO.	3255		NATIONALITY AND REGISTRATION MARK	USA N280MB
2. OWNER	NAME (As shown on registration certificate)			ADDRESS (As shown on registration certificate)	
	Aero-Metric Engineering, Inc.			4708 North 40th St. Sheboygan, WI 53081	
3. FOR FAA USE ONLY					
The data identified herein complies with applicable airworthiness requirements and is approved only for the above described aircraft subject to conformity inspection by a person authorized in FAR 43.7					
APPROVING INSPECTOR <i>ONE GL-25</i> DATE 3/17/94					
4. UNIT IDENTIFICATION					
UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
AIRFRAME	***** (As described in item 1 above) *****			REPAIR	ALTERATION
POWERPLANT					XX
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS		B. KIND OF AGENCY		C. CERTIFICATE NO.	
Express Avionics, Inc. 10971 E. Airport Service Rd. Swanton, Ohio 43558		U.S. CERTIFICATED MECHANIC FOREIGN CERTIFICATED MECHANIC ☒ CERTIFICATED REPAIR STATION MANUFACTURER		Radio 1,2,3 L-SS, L-INS L-ACC XXER854K	
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
DATE 3/17/94		SIGNATURE OF AUTHORIZED INDIVIDUAL Thomas A. Corwin <i>[Signature]</i>			
7. APPROVAL FOR RETURN TO SERVICE					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED:					
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION		OTHER (Specify)
	FAA DESIGNEE	☒ REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION 3/17/94		CERTIFICATE OR DESIGNATION NO. XXER854K		SIGNATURE OF AUTHORIZED INDIVIDUAL <i>[Signature]</i>	



NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Removed from aircraft an existing Arnav R-40 Loran system consisting of the following components;

1. 1 each R-40 Loran Receiver
2. 1 each Arnav Loran Antenna and Antenna Coupler

Installed in aircraft an Arnav FMS-7000 GPS/Loran navigation system consisting of the following components:

1. 1 each Arnav FMS-7000 Loran/GPS Rec p/n 453-7605-03
2. 1 each Arnav FMS-7000 CDU p/n 453-7000B
3. 1 each Arnav GPS Antenna p/n 870-0028
4. 1 each Arnav Loran Antenna p/n 452-0139
5. 1 each Arnav Altitude Serializer p/n 453-0510
6. 1 each RSU-21 Switching Unit

The above installation was performed in accordance with the Arnav FMS-7000 Supplementary Installation Guide p/n 570-1062 Dated Feb 1993, recommendations contained in FAA AC 43.13.1A Chapter 11, FAA AC 43.13.2A Chapter 2 and 3, and FAA AC 20-121A, and accepted industry standard practices.

The Arnav FMS-7000 Loran/GPS Navigation system was installed coupled to the Century IV AP/FD system utilizing an RSU-21 nav switching unit.

Aircraft maintenance records and weight and balance data have been updated to reflect the above installations.

A flight test was performed to verify previously installed equipment was not affected by this installation, and that the new equipment performs it's intended function.

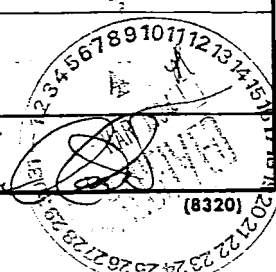
The Arnav FMS-7000 Loran/GPS System is approved for VFR use only and the aircraft panel has been placarded "LORAN NOT APPROVED FOR IFR" AND "GPS NOT APPROVED FOR IFR".

Reference our WO# 2268, 2357 and Form 337 dated 3/3/94 for details of this installation

*****END*****

☐ ADDITIONAL SHEETS ARE ATTACHED

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				Form Approved Budget Bureau No. 04-R060.1	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				FOR FAA USE ONLY	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.				OFFICE IDENTIFICATION CLEFS00 GL-25	
1. AIRCRAFT	MAKE Rockwell International		MODEL Commander 500S		
	SERIAL NO. 3255		NATIONALITY AND REGISTRATION MARK USA N280MB		
2. OWNER	NAME (As shown on registration certificate) Aero-Metric Engineering, Inc.		ADDRESS (As shown on registration certificate) 4708 North 40th St. Shdboygan, WI 53081		
	3. FOR FAA USE ONLY				
4. UNIT IDENTIFICATION					
UNIT	MAKE	MODEL	SERIAL NO.	REPAIR	ALTERATION
AIRFRAME	***** (As described in item 1 above) *****				XX
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS		B. KIND OF AGENCY		C. CERTIFICATE NO.	
EXPRESS AVIONICS, INC. 10971 E. AIRPORT SERVICE ROAD SWANTON OHIO 43558		U.S. CERTIFICATED MECHANIC FOREIGN CERTIFICATED MECHANIC XX CERTIFICATED REPAIR STATION MANUFACTURER		Radio 1,2,3 L-SS, L-INS, L-ACC XXER854K	
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
DATE 3/3/94		SIGNATURE OF AUTHORIZED INDIVIDUAL THOMAS A. CORWIN			
7. APPROVAL FOR RETURN TO SERVICE					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED					
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION	OTHER (Specify)	
	FAA DESIGNEE	X REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION 3/3/94		CERTIFICATE OR DESIGNATION NO. XXER854K	SIGNATURE OF AUTHORIZED INDIVIDUAL THOMAS A. CORWIN		



NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Removed from aircraft an existing Arnav R-40 Loran system consisting of the following components;

1. 1 each Arnav R-40 Loran Receiver
2. 1 each Arnav Loran Antenna and Antenna Coupler

Installed in aircraft an Arnav FMS-7000 GPS/Loran navigation system consisting of the following components:

1. 1 each Arnav FMS-7000 Loran/GPS Rec p/n 453-7605-03
2. 1 each Arnav FMS-7000 CDU p/n 453-7000-B
3. 1 each Arnav GPS Antenna p/n 870-0028
4. 1 each Arnav Loran Antenna p/n 452-0139
5. 1 each Arnav Altitude Serializer p/n 453-0510
6. 1 each RSU-21 Switching Unit

The above installation was performed in accordance with the Arnav FMS-7000 Supplementary Installation Guide p/n 570-1062 Dated Feb 1993, recommendations contained in FAA AC 43.13.1A Chapter 11, FAA AC 43.13.2A Chapter 2 and 3, and FAA AC 20-121A, and accepted industry standard practices.

Also removed the existing Century III Autopilot System and installed a Century IV Flight Director/Autopilot System in accordance with STC #SA3142SW-D.

The Arnav FMS-7000 Loran/GPS Navigation system was installed coupled to the Century IV AP/PD system utilizing an RSU-21 nav switching unit.

Aircraft maintenance records and weight and balance data have been updated to reflect the above installations.

A flight test was performed to verify previously installed equipment was not affected by this installation, and that the new equipment performs it's intended function.

The Arnav FMS-7000 Loran/GPS System is approved for VFR use only and the aircraft panel has been placarded "LORAN NOT APPROVED FOR IFR" AND "GPS NOT APPROVED FOR NAVIGATION" pending FAA Field approval of the Arnav FMS-7000 navigation system.

Reference our WOs # 2268 and 2357 for details of this installation

*****END*****

☐ ADDITIONAL SHEETS ARE ATTACHED

 MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)					
Form Approved OMB No. 2120-0020 FB01E For FAA Use Only Office Identification SEA FSDO					
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).					
1. Aircraft	Make	ROCKWELL INTERNATIONAL		Model	Commander 500S
	Serial No.	3255		Nationality and Registration Mark	USA N280MB
2. Owner	Name (As shown on registration certificate)			Address (As shown on registration certificate)	
	ARRO-METRIC ENGINEERING, INC.			4708 North 40th Street Sheboygan, WI 53081	
3. For FAA Use Only THE DATA IDENTIFIED HEREIN COMPLIES WITH APPLICABLE AIRWORTHINESS REQUIREMENTS AND IS APPROVED ONLY FOR THE ABOVE DESCRIBED AIRCRAFT SUBJECT TO CONFORMITY INSPECTION BY A PERSON AUTHORIZED IN FAR 43.7					
Date JUL 15 1993 <i>Thomas E. Ray</i>					
4. Unit Identification					
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in item 1 above)				XX
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				
6. Conformity Statement					
A. Agency's Name and Address			B. Kind of Agency		C. Certificate No.
Hugh G. Evans			XX U.S. Certified Mechanic		2264355A&P
MERLYN PRODUCTS, INC.			Foreign Certified Mechanic		
West 7500 Park Drive			Certified Repair Station		
Spokane, WA 99204			Manufacturer		
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
Date			Signature of Authorized Individual		
July 14, 1993			Hugh G. Evans <i>Hugh G. Evans</i>		
7. Approval for Return To Service					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is: XX APPROVED ☐ REJECTED					
BY	FAA Fit. Standards Inspector	Manufacturer	XX	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection		Certificate or Designation No.	Signature of Authorized Individual		
July 14, 1993		IA1559677	Charles J. Wright <i>Charles J. Wright</i>		

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Removed original equipment batteries (2 each G35M) and installed 1 each Gill G6381 E battery.

NOTE:

1. Battery tray structural support of the 500S is identical to the 680E. The 680E is FAA approved for the Gill GE50 which is identical in weight to the Gill G6381E.
2. The 6381E battery performance is equal to, or greater than the original equipment.

***** END *****

FOR THE RECORD, THE FOLLOWING INFORMATION IS BEING PROVIDED TO THE FAA RECORDS SECTION BY THE AIRCRAFT OWNER/REGISTRAR:

100-111111-1 100-111111-1

☐ Additional Sheets Are Attached

I. AIRCRAFT DESCRIPTION		II. CERTIFICATION REQUESTED		III. OWNER'S CERTIFICATION		IV. INSPECTION AGENCY VERIFICATION		V. FAA REPRESENTATIVE CERTIFICATION	
1. REGISTRATION MARK N280MB		2. AIRCRAFT BUILDER'S NAME (Make) Rockwell, Int'l		3. AIRCRAFT MODEL DESIGNATION 500S		4. YR. MFR 1975		FAA CODING 7630410	
5. AIRCRAFT SERIAL NO. 3255		6. ENGINE BUILDER'S NAME (Make) Lycoming		7. ENGINE MODEL DESIGNATION TIO-540-J2B(D)		41533			
8. NUMBER OF ENGINES 2		9. PROPELLER BUILDER'S NAME (Make) Hartzell		10. PROPELLER MODEL DESIGNATION HC-C3YR-2UF/FC8468D-6R		11. AIRCRAFT IS (Check if applicable) IMPORT			
APPLICATION IS HEREBY MADE FOR: (Check applicable items)									
A. 1 X STANDARD AIRWORTHINESS CERTIFICATE (Indicate category)									
B. SPECIAL AIRWORTHINESS CERTIFICATE (Check appropriate items)									
2 LIMITED									
5 PROVISIONAL (Indicate class)									
3 RESTRICTED (Indicate operation(s) to be conducted)									
4 EXPERIMENTAL (Indicate operation(s) to be conducted)									
8 SPECIAL FLIGHT PERMIT (Indicate operation to be conducted, then complete Section VI or VII as applicable on reverse side)									
C. 6 MULTIPLE AIRWORTHINESS CERTIFICATE (Check ABOVE Restricted Operation and Standard or Limited as applicable)									
A. REGISTERED OWNER (As shown on certificate of aircraft registration)									
NAME AERO-METRIC Engineering, Inc.					IF DEALER, CHECK HERE				
ADDRESS 4708 North 40th Street Sheboygan, WI. 53081									
B. AIRCRAFT CERTIFICATION BASIS (Check applicable blocks and complete items as indicated)									
AIRCRAFT SPECIFICATION OR TYPE CERTIFICATE DATA SHEET (Give No and Revision No.) 6A1 REV 45					AIRCRAFT LISTING (Give page number(s))				
AIRCRAFT LISTING (Give page number(s))					AIRCRAFT LISTING (Give page number(s))				
C. AIRCRAFT OPERATION AND MAINTENANCE RECORDS									
CHECK IF RECORDS IN COMPLIANCE WITH 91-419					TOTAL AIRFRAME HOURS 6393.5				
EXPERIMENTAL ONLY (Enter hours flown since last certificate issued or renewed) 43.2									
D. CERTIFICATION — I hereby certify that I am the registered owner (or his agent) of the aircraft described above, that the aircraft is registered with the Federal Aviation Administration in accordance with Section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations, and that the aircraft has been inspected and is									
DATE OF APPLICATION 7-6-93									
NAME AND TITLE (Print or type) Hugh Evans Agent									
SIGNATURE Hugh Evans									
A. THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY (Complete this section only if FAR 21.183(d) applies)									
2 FAR PART 121 OR 127 CERTIFICATE HOLDER (Give Certificate No.)					3 CERTIFICATED MECHANIC (Give Certificate No.) A11559677				
5 AIRCRAFT MANUFACTURER (Give name of firm)					6 CERTIFICATED REPAIR STATION (Give Certificate No.)				
DATE 7-6-93									
TITLE Inspection Authorization									
SIGNATURE Charles J. Wright									
(Check ALL applicable blocks in items A and B)									
A. I find that the aircraft described in Section I or VII meets requirements for									
B. Inspection for a special flight permit under Section VII was conducted by:									
DATE 7-6-93									
DISTRICT OFFICE									
DESIGNEE'S SIGNATURE AND NO. DALE A. MUMFORD - DAR-16-AC-NM									
FAA INSPECTOR'S SIGNATURE									

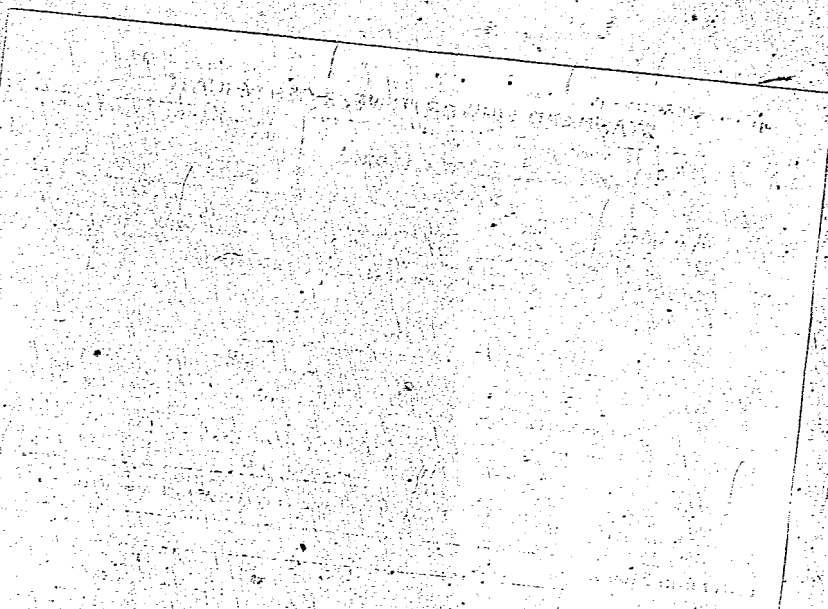
U.S. GPO: 1989-241-672/90913

VI. PRODUCTION FLIGHT TESTING	A. MANUFACTURER		ADDRESS	
	NAME			
	B. PRODUCTION BASIS (Check applicable item)			
	☐ PRODUCTION CERTIFICATE (Give production certificate number) ☐ TYPE CERTIFICATE ONLY ☐ APPROVED PRODUCTION INSPECTION SYSTEM			
VII. SPECIAL FLIGHT PERMIT PURPOSES OTHER THAN PRODUCTION FLIGHT TEST	C. GIVE QUANTITY OF CERTIFICATES REQUIRED FOR OPERATING NEEDS		SIGNATURE	
	DATE OF APPLICATION	NAME AND TITLE (Print or type)		
	A. DESCRIPTION OF AIRCRAFT			
	REGISTERED OWNER		ADDRESS	
	BUILDER (Make)	MODEL		
	SERIAL NUMBER	REGISTRATION MARK		
	B. DESCRIPTION OF FLIGHT		☐ CUSTOMER DEMONSTRATION FLIGHTS (Check if applicable)	
	FROM	TO		
	VIA	DEPARTURE DATE	DURATION	
	C. CREW REQUIRED TO OPERATE THE AIRCRAFT AND ITS EQUIPMENT			
	☐ PILOT	☐ CO-PILOT	☐ NAVIGATOR	☐ OTHER (Specify)
	D. THE AIRCRAFT DOES NOT MEET THE APPLICABLE AIRWORTHINESS REQUIREMENTS AS FOLLOWS			
	E. THE FOLLOWING RESTRICTIONS ARE CONSIDERED NECESSARY FOR SAFE OPERATION (Use attachment if necessary)			
	F. CERTIFICATION — I hereby certify that I am the registered owner (or his agent) of the aircraft described above, that the aircraft is registered with the Federal Aviation Administration in accordance with Section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations, and that the aircraft has been inspected and is airworthy for the flight described.			
	DATE	NAME AND TITLE (Print or type)		SIGNATURE
VIII. AIRWORTHINESS DOCUMENTATION (FAA use only)	☒ A. Operating Limitations and Markings in Compliance with FAR 91.31 as Applicable	☒ G. Statement of Conformity, FAA Form 8130-9 (Attach when required)		
	☐ B. Current Operating Limitations Attached	☐ H. Foreign Airworthiness Certification for Import Aircraft (Attach when required)		
	☐ C. Data, Drawings, Photographs, etc. (Attach when required)	☐ I. Previous Airworthiness Certificate Issued in Accordance with FAR 21.191(b) CAR _____ (Original Attached)		
	☒ D. Current Weight and Balance Information Available in Aircraft	☐ J. Current Airworthiness Certificate Issued in Accordance with FAR 21.183(d) _____ (Copy attached)		
	☒ E. Major Repair and Alteration, FAA Form 337 (Attach when required)			
	☒ F. This Inspection Recorded in Aircraft Records			

UNITED STATES OF AMERICA DEPARTMENT OF TRANSPORTATION—FEDERAL AVIATION ADMINISTRATION			
STANDARD AIRWORTHINESS CERTIFICATE			
1. NATIONALITY AND REGISTRATION MARKS E-280MB	2. MANUFACTURER AND MODEL Rockwell International 500S	3. AIRCRAFT SERIAL NUMBER 3255	4. CATEGORY Normal
5. AUTHORITY AND BASIS FOR ISSUANCE This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein. Exceptions: NONE			
6. TERMS AND CONDITIONS Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.			
DATE OF ISSUANCE 07-06-93	FAA REPRESENTATIVE <i>DATE A. HUMPHREY</i> DATE A. HUMPHREY		DESIGNATION NUMBER DAR-16-AC-III
Any alteration, reproduction, or misuse of this certificate may be punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.			
FAA Form 8100-2 (8-82)		GPO 692-804	

FAA AIRCRAFT REGISTRY

CAMERA NO. 2N DATE: 9-22-93



UNITED STATES OF AMERICA DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION SPECIAL AIRWORTHINESS CERTIFICATE	
A	CATEGORY/DESIGNATION: EXPERIMENTAL PURPOSE: SHOW COMPLIANCE WITH FAR
B	MANUFACTURER: NAME: N/A ADDRESS: N/A
C	FLIGHT: FROM: N/A TO: N/A
D	N-280MB BUILDER: Rockwell International SERIAL NO.: 3255 MODEL: 500-S
E	DATE OF ISSUANCE: November 20, 1992 EXPIRY: May 31, 1993 OPERATING LIMITATIONS DATED: Nov. 20, 1992 SIGNATURE OF FAA REPRESENTATIVE: CHARLIE COTTON, ASI (MFG) DESIGNATION OR OFFICE NO.: SEA-MIDO, ANM-108S

Any alteration, reproduction or misuse of this certificate may be punishable by a fine not exceeding \$1,000 or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.

FAA FORM 8130-7 (10/82)

SEE REVERSE SIDE

A	This airworthiness certificate is issued under the authority of the Federal Aviation Act of 1958 and the Federal Aviation Regulations (FAR).
B	This airworthiness certificate authorizes the manufacturer named on the reverse side to conduct production flight tests, and only production flight tests, of aircraft registered in his name. No person may conduct production flight tests under this certificate: (1) Carrying persons or property for compensation or hire; and/or (2) Carrying persons not essential to the purpose of the flight.
C	This airworthiness certificate authorizes the flight specified on the reverse side for the purpose shown in Block A.
D	This airworthiness certificate certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to meet the requirements of the applicable FAR. The aircraft does not meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention On International Civil Aviation. No person may operate the aircraft described on the reverse side: (1) except in accordance with the applicable FAR and in accordance with conditions and limitations which may be prescribed by the Administrator as part of this certificate; (2) over any foreign country without the special permission of that country.
E	Unless sooner surrendered, suspended, or revoked, this airworthiness certificate is effective for the duration and under the conditions prescribed in FAR Part 21, Section 21.181 or 21.217.

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				Form Approved OMB No. 2120-0020	
US Department of Transportation Federal Aviation Administration				For FAA Use Only Office Identification	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).					
1. Aircraft	Make	ROCKWELL INTERNATIONAL		Model	
	Serial No.	3255		Commander 500S	
2. Owner	Name (As shown on registration certificate)		Nationality and Registration Mark		
	AERO-METRIC ENGINEERING, INC.		USA N280MB		
		Address (As shown on registration certificate)			
		4708 North 40th Street Sheboygan, WI 53081			
3. For FAA Use Only					
4. Unit Identification					
Unit	Make	Model	Serial No.	5. Type	
AIRFRAME	~~~~~ (As described in item 1 above) ~~~~~			Repair	Alteration
POWERPLANT	Lycoming	TIO-540-J2B(D)	L-4825-61A RL-5989-61A		XX
PROPELLER	Hartzell	HC-3YR-2UF/FC-8468D-6R	CK3564 CK3590		XX
APPLIANCE	Type				
	Manufacturer				
6. Conformity Statement					
A. Agency's Name and Address		B. Kind of Agency		C. Certificate No.	
Hugh G. Evans MERLYN PRODUCTS, INC. West 7500 Park Drive Spokane, WA 99204		XX U.S. Certificated Mechanic Foreign Certificated Mechanic Certificated Repair Station Manufacturer		2264355A&P	
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
Date		Signature of Authorized Individual			
July 6, 1993		Hugh G. Evans			
7. Approval for Return To Service					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED					
BY	FAA Fit. Standards Inspector	Manufacturer	XX	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection		Certificate or Designation No.	Signature of Authorized Individual		
July 6, 1993		IA1559677	Charles J. Wright		

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

INSTALLED LYCOMING TIO-540-J28(D) ENGINES AND HARTZELL HC-3YR-2UF/FC-8468D#6R
PROPELLERS ACCORDING TO STC SA5969NM AND MERLYN PRODUCTS, INC. REPORT 30-1 DATED
SEPTEMBER 1, 1991, REVISION C (6/21/93). New weight & Balance this date. ***END***

☐ Additional Sheets Are Attached

Not Subject to OMB Clearance

UNITED STATES OF AMERICA DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION STATEMENT OF CONFORMITY	
SECTION I - AIRCRAFT	
1. MAKE ROCKWELL INTERNATIONAL	2. MODEL Commander 500S
3. SERIAL NO. 3255	4. REGISTRATION NO. N280MB
SECTION II - ENGINE	
1. MAKE Lycoming	2. MODEL TIO-540-J2B(D)
3. SERIAL NO. L-4825-61A and RL-5989-61A	
SECTION III - PROPELLER	
1. MAKE Hartzell	2. HUB MODEL C3YR-2UF
3. BLADE MODEL FC 8468D-6R	4. HUB SERIAL NO. CK3564 & CK3590
5. BLADE SERIAL NOS. D60802, D66964, D42662 and F29451, F29459, F29467	
SECTION IV - CERTIFICATION	
I hereby certify that:	
☒ A. I have complied with Section 21.33(a).	
☐ B. The aircraft described above, produced under type certificate only (FAR 21 Subpart F), conforms to its type certificate, is in a condition for safe operation, and was flight checked on _____ (Date)	
☐ C. The engine or propeller described above, presented herewith for type certification, conforms to the type design therefor.	
☐ D. The engine or propeller described above produced under type certificate only (FAR 21 Subpart F), conforms to its type certificate and is in a condition for safe operation. The engine or, if applicable, the variable pitch propeller was subjected by the manufacturer to a final operational check on _____ (Date)	
Deviations:	
Installation of Merlyn Shrike Conversion which includes Lycoming engine TIO-540-J2B(D) and intercoolers according to Merlyn Products, Inc. installation report 30-1, dated September 1, 1991, Rev. C. (SA1158GL, SA5969NM, SA1332SW)	
SIGNATURE OF CERTIFIER <i>Nyck G. Evans</i>	TITLE Agent
ORGANIZATION MERLYN PRODUCTS, INC.	DATE July 6, 1993

INSTRUCTIONS

This form should be submitted to a representative of the Administrator under the following circumstances:

1. By the applicant for a type certificate or a supplemental type certificate at the time he presents an aircraft or parts thereof to the FAA for tests;
2. By the applicant for a type certificate or a supplemental type certificate for each engine or propeller submitted for type certification;
3. By the type certificate holder or licensee manufacturing products under a type certificate only, upon the initial transfer by him of the ownership of each product or upon application for the original issue of an aircraft airworthiness certificate, or an Airworthiness Approval Tag (FAA Form 8130-3).

This form should be completed as follows:

Section I. Aircraft. Complete the pertinent part of only this section when certification covers an aircraft or part thereof.

Section II. Engine. Complete this section when certification covers an engine.

Section III. Propeller. Complete this section when certification covers a propeller.

Section IV. Certification:

Item A. Check this block when an aircraft or part thereof is presented for flight or ground tests during type certification or supplemental type certification.

Item B. Check this block when the holder or licensee of a type certificate only, initially transfers the ownership of an aircraft manufactured under that type certificate, or applies for the original issuance of an airworthiness certificate.

Item C. Check this block when an engine or propeller is presented for type certification.

Item D. Check this block when an engine or propeller is presented for airworthiness approval and insert the date the product completed a final operational check.

The certification must be signed by an authorized person who holds a responsible position in the manufacturing organization.

EXPERIMENTAL OPERATING LIMITATIONS

DATE 11-20-92

Aircraft: Rockwell International
Model: 500-S

Registration No.: N280MB
Serial No: 3255

1. This operating limitation is a part of the Experimental Certificate of Airworthiness, FAA Form 8130-7, dated 11-20-92 and issued to expire 5-31-93 and must be displayed in the aircraft in accordance with FAR 91.27(b).
2. This aircraft is certificated in the experimental category for the purpose of: Show Compliance
3. All flights must be conducted within the following areas, boundaries, and corridors: Within the 11 western United States
4. No person may operate this aircraft for other than the purpose for which the special purpose airworthiness certificate was issued and the aircraft shall be operated in accordance with the applicable FAA Air Traffic and General Operating Rules, FAR Part 91.
5. All flights shall be conducted to avoid areas having heavy air traffic, and when operating in the vicinity of cities, towns and congested areas, conducted in such a manner that the aircraft will not create hazardous exposure to persons or property on the ground.
6. The word "Experimental" shall be displayed at each entrance to the cockpit and the letters shall be no less than two inches in height.
7. Operator of this aircraft shall notify the control tower of the experimental nature of this aircraft when operating into or out of airports with operating control towers.
8. All flights shall be conducted under VFR day only, unless appropriately equipped for night and/or instrument flight in accordance with FAR 91.33.
9. No person may operate this aircraft for carrying persons or property for compensation or hire.
10. No person may be carried in the aircraft during flight unless that person is essential to the purpose of the flight.
11. Any major change to this aircraft will invalidate the special airworthiness certificate issued for this aircraft.
12. This aircraft does not meet the requirements of the applicable, comprehensive, and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation. This aircraft may not be operated over any foreign country without the special permission of that country.
13. An entry in the aircraft log book shall be made for each flight showing time and purpose of the flight.

Charlie Cotton
Aviation Safety Inspector A/W
SEA-MIDO, ANM-108S

Continued from page 1 of 2

1. The first section of the report describes the general characteristics of the aircraft, including the make, model, and year of manufacture. It also includes information about the engine, propeller, and other major components.

2. The second section provides a detailed description of the aircraft's configuration, including the seating arrangement, cargo capacity, and other features. It also includes information about the aircraft's performance, such as its maximum speed and range.

3. The third section discusses the aircraft's maintenance history, including the dates and locations of major inspections and repairs. It also includes information about the aircraft's current status, such as whether it is airworthy and if it has any outstanding issues.

4. The fourth section contains a summary of the aircraft's history, including its previous owners and any accidents or incidents it has been involved in. It also includes information about the aircraft's current owner and any other relevant details.

5. The fifth section provides a list of references and sources used in the report, including FAA records, manufacturer's manuals, and other relevant documents.

6. The sixth section contains a list of appendices, including photographs of the aircraft, copies of maintenance records, and other supporting documents.

7. The seventh section is a conclusion, summarizing the findings of the report and providing recommendations for further action.

8. The eighth section is a list of references and sources used in the report, including FAA records, manufacturer's manuals, and other relevant documents.

9. The ninth section contains a list of appendices, including photographs of the aircraft, copies of maintenance records, and other supporting documents.

10. The tenth section is a conclusion, summarizing the findings of the report and providing recommendations for further action.

I. AIRCRAFT DESCRIPTION		II. CERTIFICATION REQUESTED		III. OWNER'S CERTIFICATION		IV. INSPECTION AND VERIFICATION		V. FAA REPRESENTATIVE CERTIFICATION	
1. REGISTRATION MARK N280MB		2. AIRCRAFT BUILDER'S NAME (Make) Rockwell		3. AIRCRAFT MODEL DESIGNATION 500S		4. YR MFR 75		FAA CODING 7630410	
5. AIRCRAFT SERIAL NO. 3255		6. ENGINE BUILDER'S NAME (Make) Lycoming		7. ENGINE MODEL DESIGNATION T10-540-J2B (D)		8. AIRCRAFT IS (Check if applicable) IMPORT		41533	
8. NUMBER OF ENGINES 2		9. PROPELLER BUILDER'S NAME (Make) Hartzell		10. PROPELLER MODEL DESIGNATION HC-C3YR-2UF/FC8468-6R		11. AIRCRAFT IS (Check if applicable) IMPORT			
APPLICATION IS HEREBY MADE FOR: (Check applicable items)									
A. STANDARD AIRWORTHINESS CERTIFICATE (Indicate category)									
B. SPECIAL AIRWORTHINESS CERTIFICATE (Check appropriate items)									
2. LIMITED									
5. PROVISIONAL (Indicate class)									
3. RESTRICTED (Indicate operation(s) to be conducted)									
4. EXPERIMENTAL (Indicate operation(s) to be conducted)									
8. SPECIAL FLIGHT PERMIT (Indicate operation to be conducted, then complete Section VI or VII as applicable on reverse side)									
C. MULTIPLE AIRWORTHINESS CERTIFICATE (Check ABOVE "Restricted Operation" and "Standard or Limited" as applicable)									
A. REGISTERED OWNER (As shown on certificate of aircraft registration)									
NAME Aero-Metric Engineering, Inc.									
ADDRESS 4708 North 40th Street Sheboygan, WI 53081									
B. AIRCRAFT CERTIFICATION BASIS (Check applicable blocks and complete items as indicated)									
XX. AIRCRAFT SPECIFICATION OR TYPE CERTIFICATE DATA SHEET (Give No. and Revision No.) 6A1 Rev 45									
AIRCRAFT LISTING (Give page number(s))									
C. AIRCRAFT OPERATION AND MAINTENANCE RECORDS									
XX. CHECK IF RECORDS IN COMPLIANCE WITH FAR 91.417									
TOTAL AIRFRAME HOURS 6350.3									
3. EXPERIMENTAL ONLY (Enter hours flown since last certificate issued or renewed) 26.2									
D. CERTIFICATION — I hereby certify that I am the registered owner (or his agent) of the aircraft described above, that the aircraft is registered with the Federal Aviation Administration in accordance with Section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations, and that the aircraft has been inspected and is airworthy and eligible for the airworthiness certificate requested.									
DATE OF APPLICATION November 20, 1992									
NAME AND TITLE (Print or type) Hugh G. Evans, Agent									
SIGNATURE <i>Hugh G. Evans</i>									
A. THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY: (Complete this section only if FAR 21.183(d) applies)									
2. FAR PART 121 OR 127 CERTIFICATE HOLDER (Give Certificate No.)									
3. CERTIFICATED MECHANIC (Give Certificate No.)									
5. AIRCRAFT MANUFACTURER (Give name of firm)									
DATE									
TITLE									
SIGNATURE									
(Check ALL applicable blocks in items A and B)									
A. I find that the aircraft described in Section I or VII meets requirements for:									
4. THE CERTIFICATE REQUESTED									
B. Inspection for a special flight permit under Section VII was conducted by:									
FAA INSPECTOR									
FAA DESIGNEE									
CERTIFICATE HOLDER UNDER:									
DATE 1/00.29/1993									
DISTRICT OFFICE SEA-M100 AOM-1085									
DESIGNEE'S SIGNATURE AND NO.									
FAA INSPECTOR'S SIGNATURE <i>Charles Cotton, ASI (mfg)</i>									

#U.S.GPO:1989-241-672/90913

VI. PRODUCTION FLIGHT TESTING	A. MANUFACTURER:			
	NAME		ADDRESS	
	B. PRODUCTION BASIS (Check applicable item)			
	☐ PRODUCTION CERTIFICATE (Give production certificate number) ☐ TYPE CERTIFICATE ONLY ☐ APPROVED PRODUCTION INSPECTION SYSTEM			
C. GIVE QUANTITY OF CERTIFICATES REQUIRED FOR OPERATING NEEDS				SIGNATURE
DATE OF APPLICATION		NAME AND TITLE (Print or type)		
VII. SPECIAL FLIGHT PERMIT PURPOSES OTHER THAN PRODUCTION FLIGHT TEST	A. DESCRIPTION OF AIRCRAFT:			
	REGISTERED OWNER		ADDRESS	
	BUILDER (Make)		MODEL	
	SERIAL NUMBER		REGISTRATION MARK	
	B. DESCRIPTION OF FLIGHT: CUSTOMER DEMONSTRATION FLIGHTS: ☐ (Check if applicable)			
	FROM		TO	
	VIA		DEPARTURE DATE	DURATION
	C. CREW REQUIRED TO OPERATE THE AIRCRAFT AND ITS EQUIPMENT:			
	☐ PILOT ☐ CO-PILOT ☐ NAVIGATOR ☐ OTHER (Specify)			
	D. THE AIRCRAFT DOES NOT MEET THE APPLICABLE AIRWORTHINESS REQUIREMENTS AS FOLLOWS			
E. THE FOLLOWING RESTRICTIONS ARE CONSIDERED NECESSARY FOR SAFE OPERATION (Use attachment if necessary):				
F. CERTIFICATION — I hereby certify that I am the registered owner (or his agent) of the aircraft described above, that the aircraft is registered with the Federal Aviation Administration in accordance with Section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations; and that the aircraft has been inspected and is airworthy for the flight described.				
DATE		NAME AND TITLE (Print or type)		SIGNATURE
VIII. AIRWORTHINESS DOCUMENTATION (FAA use only)	☒	A. Operating Limitations and Markings in Compliance with FAR 91.31 as Applicable		G. Statement of Conformity, FAA Form 8130-9 (Attach when required)
	☒	B. Current Operating Limitations Attached		H. Foreign Airworthiness Certification for Import Aircraft (Attach when required)
	☒	C. Data, Drawings, Photographs, etc. (Attach when required)		I. Previous Airworthiness Certificate Issued in Accordance with FAR 21.191(a) CAR _____ (Original Attached)
	☒	D. Current Weight and Balance Information Available in Aircraft		J. Current Airworthiness Certificate Issued in Accordance with FAR 21.191(b) _____ (Copy attached)
	☒	E. Major Repair and Alteration, FAA Form 337 (Attach when required)		
	☒	F. This Inspection Recorded in Aircraft Records		

UNITED STATES OF AMERICA DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION SPECIAL AIRWORTHINESS CERTIFICATE			
A	CATEGORY/DESIGNATION		EXPERIMENTAL
	PURPOSE		RESEARCH & DEVELOPMENT
B	MANUFACTURER	NAME	N/A
		ADDRESS	N/A
C	FLIGHT	FROM	N/A
		TO	N/A
D	N-280MB		SERIAL NO. 3255
	BUILDER ROCKWELL INTERNATIONAL		MODEL 500-S
E	DATE OF ISSUANCE		EXPIRY 7-31-93
	OPERATING LIMITATIONS DATED		ARE A PART OF THIS CERTIFICATE
	SIGNATURE OF FAA REPRESENTATIVE		DESIGNATION OR OFFICE NO.
	FLOYD W. GASTON		ANM-02

Any alteration, reproduction or misuse of this certificate may be punishable by a fine not exceeding \$1,000 or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.

FAA FORM 8130-7 (10/82)

SEE REVERSE SIDE

A	This airworthiness certificate is issued under the authority of the Federal Aviation Act of 1958 and the Federal Aviation Regulations (FAR):
B	This airworthiness certificate authorizes the manufacturer named on the reverse side to conduct production flight tests, and only production flight tests, of aircraft registered in his name. No person may conduct production flight tests under this certificate: (1) Carrying persons or property for compensation or hire; and/or (2) Carrying persons not essential to the purpose of the flight.
C	This airworthiness certificate authorizes the flight specified on the reverse side for the purpose shown in Block A:
D	This airworthiness certificate certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to meet the requirements of the applicable FAR. The aircraft does not meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention On International Civil Aviation. No person may operate the aircraft described on the reverse side: (1) except in accordance with the applicable FAR and in accordance with conditions and limitations which may be prescribed by the Administrator as part of this certificate; (2) over any foreign country without the special permission of that country.
E	Unless sooner surrendered, suspended, or revoked, this airworthiness certificate is effective for the duration and under the conditions prescribed in FAR Part 21, Section 21.181 or 21.217.

UNITED STATES OF AMERICA DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION SPECIAL AIRWORTHINESS CERTIFICATE	
A	CATEGORY/DESIGNATION EXPERIMENTAL
	PURPOSE SHOW COMPLIANCE WITH FAR
B	MANUFACTURER NAME N/A
	ADDRESS N/A
C	FLIGHT FROM N/A
	TO N/A
D	N- 280MB SERIAL NO. 3255
	BUILDER Rockwell International MODEL 500-S
	DATE OF ISSUANCE November 20, 1992 EXPIRY May 31, 1993
E	OPERATING LIMITATIONS DATED Nov. 20, 1992 ARE A PART OF THIS CERTIFICATE.
	SIGNATURE OF FAA REPRESENTATIVE Charlie Cotton DESIGNATION OR OFFICE NO. SEA-NIDO, ANM-108S
	CHARLIE COTTON, ASI (MFG)

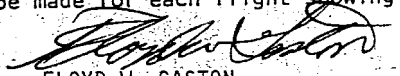
Any alteration, reproduction or misuse of this certificate may be punishable by a fine not exceeding \$1,000 or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.

A	This airworthiness certificate is issued under the authority of the Federal Aviation Act of 1958 and the Federal Aviation Regulations (FAR).
B	This airworthiness certificate authorizes the manufacturer named on the reverse side to conduct production flight tests, and only production flight tests, of aircraft registered in his name. No person may conduct production flight tests under this certificate: (1) Carrying persons or property for compensation or hire; and/or (2) Carrying persons not essential to the purpose of the flight.
C	This airworthiness certificate authorizes the flight specified on the reverse side for the purpose shown in Block A.
D	This airworthiness certificate certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to meet the requirements of the applicable FAR. The aircraft does not meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention On International Civil Aviation. No person may operate the aircraft described on the reverse side: (1) except in accordance with the applicable FAR and in accordance with conditions and limitations which may be prescribed by the Administrator as part of this certificate; (2) over any foreign country without the special permission of that country.
E	Unless sooner surrendered, suspended, or revoked, this airworthiness certificate is effective for the duration and under the conditions prescribed in FAR Part 21, Section 21.181 or 21.217.

EXPERIMENTAL OPERATING LIMITATIONS

DATE 8-4-92Aircraft: ROCKWELL INTERNATIONAL
Model: 500-SRegistration No.: N-280MB
Serial No: 3255

1. This operating limitation is a part of the Experimental Certificate of Airworthiness, FAA Form 8130-7, dated 8-4-92 and issued to expire 7-31-93 and must be displayed in the aircraft in accordance with FAR 91.27(b).
2. This aircraft is certificated in the experimental category for the purpose of: RESEARCH & DEVELOPMENT.
3. All flights must be conducted within the following areas, boundaries, and corridors: WITHIN THE 48 CONTIGUOUS UNITED STATES.
4. No person may operate this aircraft for other than the purpose for which the special purpose airworthiness certificate was issued and the aircraft shall be operated in accordance with the applicable FAA Air Traffic and General Operating Rules, FAR Part 91.
5. All flights shall be conducted to avoid areas having heavy air traffic, and when operating in the vicinity of cities, towns and congested areas, conducted in such a manner that the aircraft will not create hazardous exposure to persons or property on the ground.
6. The word "Experimental" shall be displayed at each entrance to the cockpit and the letters shall be no less than two inches in height.
7. Operator of this aircraft shall notify the control tower of the experimental nature of this aircraft when operating into or out of airports with operating control towers.
8. N/A
9. No person may operate this aircraft for carrying persons or property for compensation or hire.
10. No person may be carried in the aircraft during flight unless that person is essential to the purpose of the flight.
11. Any major change to this aircraft will invalidate the special airworthiness certificate issued for this aircraft.
12. This aircraft does not meet the requirements of the applicable, comprehensive, and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation. This aircraft may not be operated over any foreign country without the special permission of that country.
13. An entry in the aircraft log book shall be made for each flight showing time and purpose of the flight.


FLOYD W. GASTON
Aviation Safety Inspector A/W
ANM-02; SPOKANE, WA

FAA AIRCRAFT REGISTRY

CAMERA NO. 2 DATE: 3-2-93

US Department of Transportation Federal Aviation Administration		APPLICATION FOR AIRWORTHINESS CERTIFICATE		INSTRUCTIONS — Print or type. Do not write in shaded areas; these are for FAA use only. Submit original only to an authorized FAA Representative. If additional space is required, use an attachment. For special flight permits complete Sections II and VI or VII as applicable.																																																																															
I. AIRCRAFT DESCRIPTION	1. REGISTRATION MARK	2. AIRCRAFT BUILDER'S NAME (Make)	3. AIRCRAFT MODEL DESIGNATION	4. YR. MFR.	FAA CODING																																																																														
	N-280MB	ROCKWELL INTERNATIONAL	500-S	1975	7630410																																																																														
	5. AIRCRAFT SERIAL NO.	6. ENGINE BUILDER'S NAME (Make)	7. ENGINE MODEL DESIGNATION																																																																																
	3255	LYCOMING	T10-540-J2B	41533																																																																															
	8. NUMBER OF ENGINES	9. PROPELLER BUILDER'S NAME (Make)	10. PROPELLER MODEL DESIGNATION	11. AIRCRAFT IS (Check if applicable)																																																																															
	TWO	HARTZELL	HC-C3YR-UF	IMPORT																																																																															
APPLICATION IS HEREBY MADE FOR: (Check applicable items)																																																																																			
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C. 6 MULTIPLE AIRWORTHINESS CERTIFICATE (Check ABOVE "Restricted Operation" and "Standard or Limited" as applicable)																																																																																			
III. OWNER'S CERTIFICATION																																																																																			
A. REGISTERED OWNER (As shown on certificate of aircraft registration)																																																																																			
NAME			IF DEALER, CHECK HERE																																																																																
AERO-METRIC ENGINEERING, INC.			ADDRESS 4708 North 40th ST. Sheboygan, WI 53081																																																																																
B. AIRCRAFT CERTIFICATION BASIS (Check applicable blocks and complete items as indicated)																																																																																			
X AIRCRAFT SPECIFICATION OR TYPE CERTIFICATE DATA SHEET (Give No. and Revision No.)			AIRWORTHINESS DIRECTIVES (Check if all applicable AD's complied with and give latest AD No.)																																																																																
6A1 Revision 45			92-15																																																																																
AIRCRAFT LISTING (Give page number(s))			SUPPLEMENTAL TYPE CERTIFICATE (List number of each STC incorporated)																																																																																
N/A			SA1158GL																																																																																
C. AIRCRAFT OPERATION AND MAINTENANCE RECORDS																																																																																			
CHECK IF RECORDS IN COMPLIANCE WITH FAR 91.173		TOTAL AIRFRAME HOURS		EXPERIMENTAL ONLY (Enter hours flown since last certificate issued or renewed)																																																																															
X		6324		3																																																																															
D. CERTIFICATION — I hereby certify that I am the registered owner (or his agent) of the aircraft described above, that the aircraft is registered with the Federal Aviation Administration in accordance with Section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations, and that the aircraft has been inspected and is airworthy and eligible for the airworthiness certificate requested																																																																																			
DATE OF APPLICATION		NAME AND TITLE (Print or type)		SIGNATURE																																																																															
8-4-92		HUGH G. EVANS (AGENT)		[Signature]																																																																															
IV. INSPECTION AGENCY VERIFICATION																																																																																			
A. THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY. (Complete this section only if FAR 21.183(d) applies)																																																																																			
2	FAR PART 121 OR 127 CERTIFICATE HOLDER (Give Certificate No.)	3	CERTIFICATED MECHANIC (Give Certificate No.)	6	CERTIFICATED REPAIR STATION (Give Certificate No.)																																																																														
5	AIRCRAFT MANUFACTURER (Give name of firm)																																																																																		
DATE		TITLE		SIGNATURE																																																																															
V. FAA REPRESENTATIVE CERTIFICATION																																																																																			
(Check ALL applicable blocks in items A and B)																																																																																			
A. I find that the aircraft described in Section I or VII meets requirements for:			X THE CERTIFICATE REQUESTED																																																																																
			4 AMENDMENT OR MODIFICATION OF CURRENT AIRWORTHINESS CERTIFICATE																																																																																
B. Inspection for a special flight permit under Section VII was conducted by:			FAA INSPECTOR																																																																																
			FAA DESIGNEE																																																																																
			CERTIFICATE HOLDER UNDER:																																																																																
			FAR 63 FAR 121, 127 or 135 FAR 145																																																																																
DATE	DISTRICT OFFICE	DESIGNEE'S SIGNATURE AND NO.		FAA INSPECTOR'S SIGNATURE																																																																															
8-4-92	ANM-02	4		1 [Signature] FLUDD W. GASTON																																																																															

U.S.GPO:1989-241-672/90913

VI. PRODUCTION FLIGHT TESTING	A. MANUFACTURER			
	NAME		ADDRESS	
	B. PRODUCTION BASIS (Check applicable item)			
	☐ PRODUCTION CERTIFICATE (Give production certificate number) ☐ TYPE CERTIFICATE ONLY ☐ APPROVED PRODUCTION INSPECTION SYSTEM			
C. GIVE QUANTITY OF CERTIFICATES REQUIRED FOR OPERATING NEEDS				SIGNATURE
DATE OF APPLICATION	NAME AND TITLE (Print or type)			
VII. SPECIAL FLIGHT PERMIT PURPOSES OTHER THAN PRODUCTION FLIGHT TEST	A. DESCRIPTION OF AIRCRAFT			
	REGISTERED OWNER		ADDRESS	
	BUILDER (Make)		MODEL	
	SERIAL NUMBER		REGISTRATION MARK	
	B. DESCRIPTION OF FLIGHT ☐ CUSTOMER DEMONSTRATION FLIGHTS (Check if applicable)			
	FROM		TO	
	VIA		DEPARTURE DATE	DURATION
	C. CREW REQUIRED TO OPERATE THE AIRCRAFT AND ITS EQUIPMENT			
	☐ PILOT ☐ CO-PILOT ☐ NAVIGATOR ☐ OTHER (Specify)			
	D. THE AIRCRAFT DOES NOT MEET THE APPLICABLE AIRWORTHINESS REQUIREMENTS AS FOLLOWS:			
	E. THE FOLLOWING RESTRICTIONS ARE CONSIDERED NECESSARY FOR SAFE OPERATION (Use attachment if necessary)			
F. CERTIFICATION — I hereby certify that I am the registered owner (or his agent) of the aircraft described above; that the aircraft is registered with the Federal Aviation Administration in accordance with Section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations; and that the aircraft has been inspected and is airworthy for the flight described.				
DATE		NAME AND TITLE (Print or type)		SIGNATURE
VIII. AIRWORTHINESS DOCUMENTATION (FAA use only)	☒	A. Operating Limitations and Markings in Compliance with FAR 91.31 as Applicable		G. Statement of Conformity, FAA Form 8130-9 (Attach when required)
	☒	B. Current Operating Limitations Attached		H. Foreign Airworthiness Certification for Import Aircraft (Attach when required)
	☒	C. Data, Drawings, Photographs, etc. (Attach when required)		I. Previous Airworthiness Certificate Issued in Accordance with:
	☒	D. Current Weight and Balance Information Available in Aircraft		☒ FAR 21.191(a) CAR (Original Attached)
	☒	E. Major Repair and Alteration, FAA Form 337 (Attach when required)		☒ FAR 21.191(a) (Copy attached)
	☒	F. This Inspection Recorded in Aircraft Records		

UNITED STATES OF AMERICA DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION SPECIAL AIRWORTHINESS CERTIFICATE			
A	CATEGORY/DESIGNATION		EXPERIMENTAL
	PURPOSE		RESEARCH & DEVELOPMENT
B	MANUFACTURER	NAME	N/A
		ADDRESS	N/A
C	FLIGHT	FROM	N/A
		TO	N/A
D	N-280MB		SERIAL NO. 3255
	BUILDER ROCKWELL INTERNATIONAL		MODEL 500-S
E	DATE OF ISSUANCE 8-4-92		EXPIRY 7-31-93
	OPERATING LIMITATIONS DATED 8-4-92		ARE A PART OF THIS CERTIFICATE
	SIGNATURE OF FAA REPRESENTATIVE		DESIGNATION OR OFFICE NO.
	FLOYD W. GASTON		ANM-02

Any alteration, reproduction or misuse of this certificate may be punishable by a fine not exceeding \$1,000 or imprisonment not exceeding 3 years; or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.

SEE REVERSE SIDE

FAA FORM 8130-7 (10-82)

A	This airworthiness certificate is issued under the authority of the Federal Aviation Act of 1958 and the Federal Aviation Regulations (FAR).
B	This airworthiness certificate authorizes the manufacturer named on the reverse side to conduct production flight tests, and only production flight tests, of aircraft registered in his name. No person may conduct production flight tests under this certificate: (1) Carrying persons or property for compensation or hire; and/or (2) Carrying persons not essential to the purpose of the flight.
C	This airworthiness certificate authorizes the flight specified on the reverse side for the purpose shown in Block A.
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E	Unless sooner surrendered, suspended, or revoked, this airworthiness certificate is effective for the duration and under the conditions prescribed in FAR Part 21, Section 21.181 or 21.217.

EXPERIMENTAL OPERATING LIMITATIONS

DATE 8-4-92

Aircraft: ROCKWELL INTERNATIONAL
Model: 500-S

Registration No.: N-280MB
Serial No: 3255

1. This operating limitation is a part of the Experimental Certificate of Airworthiness, FAA Form 8130-7, dated 8-4-92 and issued to expire 7-31-93 and must be displayed in the aircraft in accordance with FAR 91.27(b).

2. This aircraft is certificated in the experimental category for the purpose of: RESEARCH & DEVELOPMENT.

3. All flights must be conducted within the following areas, boundaries, and corridors: WITHIN THE 48 CONTIGUOUS UNITED STATES.

4. No person may operate this aircraft for other than the purpose for which the special purpose airworthiness certificate was issued and the aircraft shall be operated in accordance with the applicable FAA Air Traffic and General Operating Rules, FAR Part 91.

5. All flights shall be conducted to avoid areas having heavy air traffic, and when operating in the vicinity of cities, towns and congested areas, conducted in such a manner that the aircraft will not create hazardous exposure to persons or property on the ground.

6. The word "Experimental" shall be displayed at each entrance to the cockpit and the letters shall be no less than two inches in height.

7. Operator of this aircraft shall notify the control tower of the experimental nature of this aircraft when operating into or out of airports with operating control towers.

8. N/A

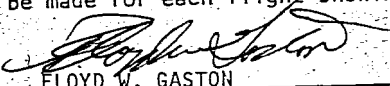
9. No person may operate this aircraft for carrying persons or property for compensation or hire.

10. No person may be carried in the aircraft during flight unless that person is essential to the purpose of the flight.

11. Any major change to this aircraft will invalidate the special airworthiness certificate issued for this aircraft.

12. This aircraft does not meet the requirements of the applicable, comprehensive, and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation. This aircraft may not be operated over any foreign country without the special permission of that country.

13. An entry in the aircraft log book shall be made for each flight showing time and purpose of the flight.


FLOYD W. GASTON

Aviation Safety Inspector A/W
ANM-02; SPOKANE, WA

FAA AIRCRAFT REGISTRY

CAMERA NO. 2 DATE: 10-9-92

UNITED STATES OF AMERICA DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION SPECIAL AIRWORTHINESS CERTIFICATE			
A	CATEGORY/DESIGNATION		EXPERIMENTAL
	PURPOSE		RESEARCH & DEVELOPMENT
B	MANUFACTURER	NAME	N/A
		ADDRESS	N/A
C	FLIGHT	FROM	N/A
		TO	N/A
D	N- 280MB	SERIAL NO.	3255
	BUILDER ROCKWELL INTERNATIONAL	MODEL	500-S
E	DATE OF ISSUANCE	4-20-92	EXPIRY 7-31-92
	OPERATING LIMITATIONS DATED	4-20-92	ARE A PART OF THIS CERTIFICATE
	SIGNATURE OF FAA REPRESENTATIVE		DESIGNATION OR OFFICE NO.
	FLOYD W. GASTON		ANM-02

Any alteration, reproduction or misuse of this certificate may be punishable by a fine not exceeding \$1,000 or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.

A	This airworthiness certificate is issued under the authority of the Federal Aviation Act of 1958 and the Federal Aviation Regulations (FAR):
B	This airworthiness certificate authorizes the manufacturer named on the reverse side to conduct production flight tests, and only production flight tests, of aircraft registered in his name. No person may conduct production flight tests under this certificate: (1) Carrying persons or property for compensation or hire; and/or (2) Carrying persons not essential to the purpose of the flight.
C	This airworthiness certificate authorizes the flight specified on the reverse side for the purpose shown in Block A.
D	This airworthiness certificate certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to meet the requirements of the applicable FAR. The aircraft does not meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention On International Civil Aviation. No person may operate the aircraft described on the reverse side: (1) except in accordance with the applicable FAR and in accordance with conditions and limitations which may be prescribed by the Administrator as part of this certificate; (2) over any foreign country without the special permission of that country.
E	Unless sooner surrendered, suspended, or revoked, this airworthiness certificate is effective for the duration and under the conditions prescribed in FAR Part 21, Section 21.181 or 21.217.

EXPERIMENTAL OPERATING LIMITATIONS

DATE 4-20-92

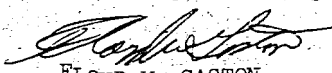
Aircraft: ROCKWELL INTERNATIONAL

Registration No.: N-280MB

Model: 500-S

Serial No: 3255

1. This operating limitation is a part of the Experimental Certificate of Airworthiness, FAA Form 8130-7, dated 4-20-92 and issued to expire 7-31-92 and must be displayed in the aircraft in accordance with FAR 91.27(b).
2. This aircraft is certificated in the experimental category for the purpose of: RESEARCH & DEVELOPMENT.
3. All flights must be conducted within the following areas, boundaries, and corridors: WITHIN 600 NM FROM THE GEG VOR WITHIN WS AIRSPACE.
4. No person may operate this aircraft for other than the purpose for which the special purpose airworthiness certificate was issued and the aircraft shall be operated in accordance with the applicable FAA Air Traffic and General Operating Rules, FAR Part 91.
5. All flights shall be conducted to avoid areas having heavy air traffic, and when operating in the vicinity of cities, towns and congested areas, conducted in such a manner that the aircraft will not create hazardous exposure to persons or property on the ground.
6. The word "Experimental" shall be displayed at each entrance to the cockpit and the letters shall be no less than two inches in height.
7. Operator of this aircraft shall notify the control tower of the experimental nature of this aircraft when operating into or out of airports with operating control towers.
8. All flights shall be conducted under ~~VFR~~ DAY OR NIGHT AND VFR OR IFR
9. No person may operate this aircraft for carrying persons or property for compensation or hire.
10. No person may be carried in the aircraft during flight unless that person is essential to the purpose of the flight.
11. Any major change to this aircraft will invalidate the special airworthiness certificate issued for this aircraft.
12. This aircraft does not meet the requirements of the applicable, comprehensive, and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation. This aircraft may not be operated over any foreign country without the special permission of that country.
13. An entry in the aircraft log book shall be made for each flight showing time and purpose of the flight.


FLOYD W. GASTON
Aviation Safety Inspector A/W
NM-FSDO-02

CG-0007-100

1. AIRCRAFT DESCRIPTION		2. AIRCRAFT BUILDER'S NAME (Make)		3. AIRCRAFT MODEL DESIGNATION		4. YR. MFR.		5. FAA CODING	
1. REGISTRATION MARK N-280MB		ROCKWELL INTERNATIONAL		500-S		1975		763 0410	
5. AIRCRAFT SERIAL NO. 3255		6. ENGINE BUILDER'S NAME (Make) LYCOMING		7. ENGINE MODEL DESIGNATION TIO-540-J2B				41533	
8. NUMBER OF ENGINES TWO		9. PROPELLER BUILDER'S NAME (Make) HARTZELL		10. PROPELLER MODEL DESIGNATION HC-C3YR-UF				11. AIRCRAFT IS (Check if applicable) IMPORT	

APPLICATION IS HEREBY MADE FOR: (Check applicable items)																	
A 1		STANDARD AIRWORTHINESS CERTIFICATE (Indicate category)				NORMAL		UTILITY		ACROBATIC		TRANSPORT		GLIDER		BALLOON	
B		XX		SPECIAL AIRWORTHINESS CERTIFICATE (Check appropriate items)													
		2		LIMITED		1		CLASS I									
		5		PROVISIONAL (Indicate class)		2		CLASS II									
		3		RESTRICTED (Indicate operation(s) to be conducted)		1		AGRICULTURE AND PEST CONTROL		2		AERIAL SURVEYING		3		AERIAL ADVERTISING	
						4		FOREST (Wildlife conservation)		5		PATROLLING		6		WEATHER CONTROL	
						7		CARRIAGE OF CARGO		0		OTHER (Specify)					
		4		XX EXPERIMENTAL (Indicate operation(s) to be conducted)		1		XX RESEARCH AND DEVELOPMENT		2		AMATEUR BUILT		3		EXHIBITION	
						4		RACING		5		CREW TRAINING				MKT SURVEY	
						0		TO SHOW COMPLIANCE WITH FAR									
						1		FERRY FLIGHT FOR REPAIRS, ALTERATIONS, MAINTENANCE OR STORAGE									
						2		EVACUATE FROM AREA OF IMPENDING DANGER									
						3		OPERATION IN EXCESS OF MAXIMUM CERTIFICATED TAKE-OFF WEIGHT									
						4		DELIVERING OR EXPORT		5		PRODUCTION FLIGHT TESTING					
						6		CUSTOMER DEMONSTRATION FLIGHTS									
C 6		MULTIPLE AIRWORTHINESS CERTIFICATE (Check ABOVE "Restricted Operation" and "Standard" or "Limited," as applicable)															

A. REGISTERED OWNER (As shown on certificate of aircraft registration)		IF DEALER, CHECK HERE	
NAME AERO-METRIC ENGINEERING, INC.		ADDRESS 4708 NORTH 40th STREET SHEBOYGAN, WI 53081	
B. AIRCRAFT CERTIFICATION BASIS (Check applicable blocks and complete items as indicated)			
X AIRCRAFT SPECIFICATION OR TYPE CERTIFICATE DATA SHEET (Give No. and Revision No.) 6A1, REVISION 45		X AIRWORTHINESS DIRECTIVES (Check if all applicable AD's complied with and give latest AD No.) 92-07	
AIRCRAFT LISTING (Give page number(s)) N/A		X SUPPLEMENTAL TYPE CERTIFICATE (List number of each STC incorporated) SA1158GL	
C. AIRCRAFT OPERATION AND MAINTENANCE RECORDS			
XX CHECK IF RECORDS IN COMPLIANCE WITH FAR 91.173		TOTAL AIRFRAME HOURS 6321	
		3 EXPERIMENTAL ONLY (Enter hours flown since last certificate issued or renewed) 18	
D. CERTIFICATION — I hereby certify that I am the registered owner (or his agent) of the aircraft described above, that the aircraft is registered with the Federal Aviation Administration in accordance with Section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations, and that the aircraft has been inspected and is airworthy and eligible for the airworthiness certificate requested			
DATE OF APPLICATION 4-20-92		NAME AND TITLE (Print or type) HUGH G. EVANS (AGENT)	
		SIGNATURE Hugh G. Evans	

A. THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY: (Complete this section only if FAR 21.15(d) applies)			
2 FAR PART 121 OR 127 CERTIFICATE HOLDER (Give Certificate No.)		3 CERTIFICATED MECHANIC (Give Certificate No.)	
5 AIRCRAFT MANUFACTURER (Give name of firm)		6 CERTIFICATED REPAIR STATION (Give Certificate No.)	
DATE		TITLE	
		SIGNATURE	

V. FAA REPRESENTATIVE CERTIFICATION			
(Check ALL applicable blocks in items A and B)			
A. I find that the aircraft described in Section I or VII meets requirements for:			
X THE CERTIFICATE REQUESTED		4 AMENDMENT OR MODIFICATION OF CURRENT AIRWORTHINESS CERTIFICATE	
B. Inspection for a special flight permit under Section VII was conducted by:			
FAA INSPECTOR		FAA DESIGNEE	
CERTIFICATE HOLDER UNDER		FAR 65 FAR 121, 127 or 135 FAR 145	
DATE 4-20-92		DISTRICT OFFICE ANM-02	
		DESIGNEE'S SIGNATURE AND NO. 4	
		FAA INSPECTOR'S SIGNATURE FLOYD W. GASTON	

U.S.GPO:1989-241-672/90913

VI. PRODUCTION FLIGHT TESTING	A. MANUFACTURER		
	NAME		ADDRESS
	B. PRODUCTION BASIS (Check applicable item)		
	☐ PRODUCTION CERTIFICATE (Give production certificate number) ☐ TYPE CERTIFICATE ONLY ☐ APPROVED PRODUCTION INSPECTION SYSTEM		
C. GIVE QUANTITY OF CERTIFICATES REQUIRED FOR OPERATING NEEDS _____			SIGNATURE
DATE OF APPLICATION		NAME AND TITLE (Print or type)	
VII. SPECIAL FLIGHT PERMIT PURPOSES OTHER THAN PRODUCTION FLIGHT TEST	A. DESCRIPTION OF AIRCRAFT		
	REGISTERED OWNER		ADDRESS
	BUILDER (Make)		MODEL
	SERIAL NUMBER		REGISTRATION MARK
	B. DESCRIPTION OF FLIGHT CUSTOMER DEMONSTRATION FLIGHTS ☐ (Check if applicable)		
	FROM		TO
	VIA		DEPARTURE DATE
			DURATION
	C. CREW REQUIRED TO OPERATE THE AIRCRAFT AND ITS EQUIPMENT		
	☐ PILOT ☐ CO-PILOT ☐ NAVIGATOR ☐ OTHER (Specify) _____		
D. THE AIRCRAFT DOES NOT MEET THE APPLICABLE AIRWORTHINESS REQUIREMENTS AS FOLLOWS:			
FAA AIRCRAFT REGISTRY CAMERA NO. 3 DATE: 6-25-92			
E. THE FOLLOWING RESTRICTIONS ARE CONSIDERED NECESSARY FOR SAFE OPERATION (Use attachment if necessary)			
FAA AIRCRAFT REGISTRY CAMERA NO. 3 DATE: 6-25-92			
F. CERTIFICATION — I hereby certify that I am the registered owner (or his agent) of the aircraft described above; that the aircraft is registered with the Federal Aviation Administration in accordance with Section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations; and that the aircraft has been inspected and is airworthy for the flight described.			
DATE		SIGNATURE	
NAME AND TITLE (Print or type)			
VIII. AIRWORTHINESS DOCUMENTATION (FAA use only)	☒ A. Operating Limitations and Markings in Compliance with FAR 91.31 as Applicable		G. Statement of Conformity, FAA Form 8130-9 (Attach when required)
	☒ B. Current Operating Limitations Attached		H. Foreign Airworthiness Certification for Import Aircraft (Attach when required)
	☒ C. Data, Drawings, Photographs, etc. (Attach when required)		I. Previous Airworthiness Certificate Issued in Accordance with FAR 21.191(a) CAR _____ (Original Attached)
	☒ D. Current Weight and Balance Information Available in Aircraft		J. Current Airworthiness Certificate Issued in Accordance with FAR 21.191(a) _____ (Copy attached)
	☒ E. Major Repair and Alteration, FAA Form 337 (Attach when required)		
	☒ F. This Inspection Recorded in Aircraft Records		

UNITED STATES OF AMERICA DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION SPECIAL AIRWORTHINESS CERTIFICATE			
A	CATEGORY/DESIGNATION - EXPERIMENTAL		
	PURPOSE RESEARCH & DEVELOPMENT		
B	MANUFACTURER	NAME	N/A
		ADDRESS	N/A
C	FLIGHT	FROM	N/A
		TO	N/A
D	N-280MB		SERIAL NO. 3255
	BUILDER ROCKWELL INTERNATIONAL		MODEL 500-S
E	DATE OF ISSUANCE 4-20-92		EXPIRY 7-31-92
	OPERATING LIMITATIONS DATED 4-20-92		ARE A PART OF THIS CERTIFICATE
	SIGNATURE OF FAA REPRESENTATIVE		DESIGNATION OR OFFICE NO.
	FLOYD W. GASTON		ANM-02

Any alteration, reproduction or misuse of this certificate may be punishable by a fine not exceeding \$1,000 or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.

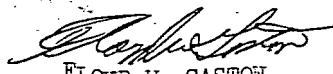
A	This airworthiness certificate is issued under the authority of the Federal Aviation Act of 1958 and the Federal Aviation Regulations (FAR).
B	This airworthiness certificate authorizes the manufacturer named on the reverse side to conduct production flight tests, and only production flight tests, of aircraft registered in his name. No person may conduct production flight tests under this certificate: (1) Carrying persons or property for compensation or hire; and/or (2) Carrying persons not essential to the purpose of the flight.
C	This airworthiness certificate authorizes the flight specified on the reverse side for the purpose shown in Block A.
D	This airworthiness certificate certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to meet the requirements of the applicable FAR. The aircraft does not meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention On International Civil Aviation. No person may operate the aircraft described on the reverse side: (1) except in accordance with the applicable FAR and in accordance with conditions and limitations which may be prescribed by the Administrator as part of this certificate; (2) over any foreign country without the special permission of that country.
E	Unless sooner surrendered, suspended, or revoked, this airworthiness certificate is effective for the duration and under the conditions prescribed in FAR Part 21, Section 21.181 or 21.217.

EXPERIMENTAL OPERATING LIMITATIONS DATE 4-20-92

Aircraft: ROCKWELL INTERNATIONAL
Model: 500-S

Registration No.: N-280MB
Serial No: 3255

1. This operating limitation is a part of the Experimental Certificate of Airworthiness, FAA Form 8130-7, dated 4-20-92 and issued to expire 7-31-92 and must be displayed in the aircraft in accordance with FAR 91.27(b).
2. This aircraft is certificated in the experimental category for the purpose of: RESEARCH & DEVELOPMENT.
3. All flights must be conducted within the following areas, boundaries; and corridors: WITHIN 600 NM FROM THE GEG VOR WITHIN WS AIRSPACE.
4. No person may operate this aircraft for other than the purpose for which the special purpose airworthiness certificate was issued and the aircraft shall be operated in accordance with the applicable FAA Air Traffic and General Operating Rules, FAR Part 91.
5. All flights shall be conducted to avoid areas having heavy air traffic, and when operating in the vicinity of cities, towns and congested areas, conducted in such a manner that the aircraft will not create hazardous exposure to persons or property on the ground.
6. The word "Experimental" shall be displayed at each entrance to the cockpit and the letters shall be no less than two inches in height.
7. Operator of this aircraft shall notify the control tower of the experimental nature of this aircraft when operating into or out of airports with operating control towers.
8. All flights shall be conducted under ~~VFR~~ DAY OR NIGHT AND VFR OR IFR
9. No person may operate this aircraft for carrying persons or property for compensation or hire.
10. No person may be carried in the aircraft during flight unless that person is essential to the purpose of the flight.
11. Any major change to this aircraft will invalidate the special airworthiness certificate issued for this aircraft.
12. This aircraft does not meet the requirements of the applicable, comprehensive, and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation. This aircraft may not be operated over any foreign country without the special permission of that country.
13. An entry in the aircraft log book shall be made for each flight showing time and purpose of the flight.


FLOYD W. GASTON
Aviation Safety Inspector A/W
NM-FSDO-02

UNITED STATES OF AMERICA DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION SPECIAL AIRWORTHINESS CERTIFICATE			
A	CATEGORY/DESIGNATION EXPERIMENTAL		
	PURPOSE RESEARCH & DEVELOPMENT		
B	MANUFACTURER	NAME	N/A
		ADDRESS	N/A
C	FLIGHT	FROM	N/A
		TO	N/A
D	N-280MB		SERIAL NO. 3255
	BUILDER ROCKWELL INTERNATIONAL		MODEL 500-S
E	DATE OF ISSUANCE 2-20-92		EXPIRY 4-21-92
	OPERATING LIMITATIONS DATED 2-20-92		ARE A PART OF THIS CERTIFICATE
	SIGNATURE OF REPRESENTATIVE		DESIGNATION OR OFFICE NO.
	FLOYD W. EASTON		ANM 02

Any alteration, reproduction or misuse of this certificate may be punishable by a fine not exceeding \$1,000 or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.

FAA FORM 8130-7 (10/82) SEE REVERSE SIDE

A	This airworthiness certificate is issued under the authority of the Federal Aviation Act of 1958 and the Federal Aviation Regulations (FAR).
B	This airworthiness certificate authorizes the manufacturer named on the reverse side to conduct production flight tests, and only production flight tests, of aircraft registered in his name. No person may conduct production flight tests under this certificate: (1) Carrying persons or property for compensation or hire; and/or (2) Carrying persons not essential to the purpose of the flight.
C	This airworthiness certificate authorizes the flight specified on the reverse side for the purpose shown in Block A.
D	This airworthiness certificate certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to meet the requirements of the applicable FAR. The aircraft does not meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention On International Civil Aviation. No person may operate the aircraft described on the reverse side: (1) except in accordance with the applicable FAR and in accordance with conditions and limitations which may be prescribed by the Administrator as part of this certificate; (2) over any foreign country without the special permission of that country.
E	Unless sooner surrendered, suspended, or revoked, this airworthiness certificate is effective for the duration and under the conditions prescribed in FAR Part 21, Section 21.181 or 21.217.

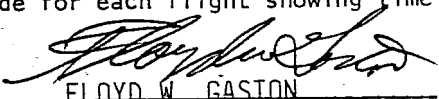
EXPERIMENTAL OPERATING LIMITATIONS

DATE 2-20-92

Aircraft: ROCKWELL INTERNATIONAL
Model: 500-S

Registration No.: N-280MB
Serial No: 3255

1. This operating limitation is a part of the Experimental Certificate of Airworthiness, FAA Form 8130-7, dated 2-20-92 and issued to expire 4-21-92 and must be displayed in the aircraft in accordance with FAR 91.27(b).
2. This aircraft is certificated in the experimental category for the purpose of: RESEARCH & DEVELOPMENT.
3. All flights must be conducted within the following areas, boundaries, and corridors: 600-NM FROM THE GEG VOR WITHIN US AIR SPACE.
4. No person may operate this aircraft for other than the purpose for which the special purpose airworthiness certificate was issued and the aircraft shall be operated in accordance with the applicable FAA Air Traffic and General Operating Rules, FAR Part 91.
5. All flights shall be conducted to avoid areas having heavy air traffic, and when operating in the vicinity of cities, towns and congested areas, conducted in such a manner that the aircraft will not create hazardous exposure to persons or property on the ground.
6. The word "Experimental" shall be displayed at each entrance to the cockpit and the letters shall be no less than two inches in height.
7. Operator of this aircraft shall notify the control tower of the experimental nature of this aircraft when operating into or out of airports with operating control towers.
8. All flights shall be conducted under VFR day ~~XXXX~~ OR NIGHT, VFR ORIFR.
9. No person may operate this aircraft for carrying persons or property for compensation or hire.
10. No person may be carried in the aircraft during flight unless that person is essential to the purpose of the flight.
11. Any major change to this aircraft will invalidate the special airworthiness certificate issued for this aircraft.
12. This aircraft does not meet the requirements of the applicable, comprehensive, and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation. This aircraft may not be operated over any foreign country without the special permission of that country.
13. An entry in the aircraft log book shall be made for each flight showing time and purpose of the flight.


FLOYD W. GASTON
Aviation Safety Inspector A/W

AW CERT. 7-15-75

Form Approved
O.M.B. No. 2120-0018

1. AIRCRAFT DESCRIPTION		APPLICATION FOR AIRWORTHINESS CERTIFICATE		INSTRUCTIONS — Print or type. Do not write in shaded areas; these are for FAA use only. Submit original only to an authorized FAA Representative. If additional space is required, use an attachment. For special flight permits complete Sections II and VI or VII as applicable.	
1. REGISTRATION MARK	N280MB	2. AIRCRAFT BUILDER'S NAME (Make)	Rockwell	3. AIRCRAFT MODEL DESIGNATION	500-S
5. AIRCRAFT SERIAL NO.	3255	6. ENGINE BUILDER'S NAME (Make)	Lycoming	7. ENGINE MODEL DESIGNATION	TIO-540-J2B
8. NUMBER OF ENGINES	2	9. PROPELLER BUILDER'S NAME (Make)	Hartzell	10. PROPELLER MODEL DESIGNATION	HC-C3YR-211F/EC8468-6B
				11. AIRCRAFT IS (Check if applicable)	IMPORT
APPLICATION IS HEREBY MADE FOR: (Check applicable items)					
☐ STANDARD AIRWORTHINESS CERTIFICATE (Indicate category) ☐ NORMAL ☐ UTILITY ☐ ACROBATIC ☐ TRANSPORT ☐ GLIDER ☐ BALLOON					
☒ SPECIAL AIRWORTHINESS CERTIFICATE (Check appropriate items)					
☒ LIMITED					
☐ PROVISIONAL (Indicate class)					
☐ RESTRICTED (Indicate operation(s) to be conducted)					
☒ EXPERIMENTAL (Indicate operation(s) to be conducted)					
☐ SPECIAL FLIGHT PERMIT (Indicate operation to be conducted, then complete Section VI or VII as applicable on reverse side)					
☐ TO SHOW COMPLIANCE WITH FAR					
☐ FERRY FLIGHT FOR REPAIRS, ALTERATIONS, MAINTENANCE OR STORAGE					
☐ EVACUATE FROM AREA OF IMPENDING DANGER					
☐ OPERATION IN EXCESS OF MAXIMUM CERTIFICATED TAKE-OFF WEIGHT					
☐ DELIVERING OR EXPORT					
☐ CUSTOMER DEMONSTRATION FLIGHTS					
☐ PRODUCTION FLIGHT TESTING					
☐ MKT SURVEY					
☐ OTHER (Specify)					
☐ RACING					
☐ CREW TRAINING					
☐ AMATEUR BUILT					
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☐ WEATHER CONTROL					
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☐ CARRIAGE OF CARGO					
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☐ CUSTOMER DEMONSTRATION FLIGHTS					
☐ PRODUCTION FLIGHT TESTING					
☐ MKT SURVEY					
☐ OTHER (Specify)					
☐ RACING					
☐ CREW TRAINING					
☐ AMATEUR BUILT					
☐ EXHIBITION					
☐ WEATHER CONTROL					
☐ PATROLLING					
☐ AERIAL SURVEYING					
☐ AGRICULTURE AND PEST CONTROL					
☐ CLASS II					
☐ CLASS I					
☐ FOREST (Wildlife conservation)					
☐ CARRIAGE OF CARGO					
☐ RESEARCH AND DEVELOPMENT					
☐ TO SHOW COMPLIANCE WITH FAR					
☐ FERRY FLIGHT FOR REPAIRS, ALTERATIONS, MAINTENANCE OR STORAGE					
☐ EVACUATE FROM AREA OF IMPENDING DANGER					
☐ OPERATION IN EXCESS OF MAXIMUM CERTIFICATED TAKE-OFF WEIGHT					
☐ DELIVERING OR EXPORT					
☐ CUSTOMER DEMONSTRATION FLIGHTS					
☐ PRODUCTION FLIGHT TESTING					
☐ MKT SURVEY					
☐ OTHER (Specify)					
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☐ CREW TRAINING					
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☐ MKT SURVEY					
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☐ CLASS II					
☐ CLASS I					
☐ FOREST (Wildlife conservation)					
☐ CARRIAGE OF CARGO					
☐ RESEARCH AND DEVELOPMENT					
☐ TO SHOW COMPLIANCE WITH FAR					
☐ FERRY FLIGHT FOR REPAIRS, ALTERATIONS, MAINTENANCE OR STORAGE					
☐ EVACUATE FROM AREA OF IMPENDING DANGER					

FAA AIRCRAFT REGISTRY

CAMERA NO. 3 DATE: 2/13/92

VI. PRODUCTION FLIGHT TESTING	A. MANUFACTURER			
	NAME		ADDRESS	
	B. PRODUCTION BASIS (Check applicable item)			
	☐ PRODUCTION CERTIFICATE (Give production certificate number) ☐ TYPE CERTIFICATE ONLY ☐ APPROVED PRODUCTION INSPECTION SYSTEM			
VII. SPECIAL FLIGHT PERMIT PURPOSES OTHER THAN PRODUCTION FLIGHT TEST	C. GIVE QUANTITY OF CERTIFICATES REQUIRED FOR OPERATING NEEDS _____			
	DATE OF APPLICATION		SIGNATURE	
	NAME AND TITLE (Print or type)			
VIII. AIRWORTHINESS DOCUMENTATION (FAA use only)	A. DESCRIPTION OF AIRCRAFT			
	REGISTERED OWNER		ADDRESS	
	BUILDER (Make)		MODEL	
	SERIAL NUMBER		REGISTRATION MARK	
	B. DESCRIPTION OF FLIGHT CUSTOMER DEMONSTRATION FLIGHTS ☐ (Check if applicable)			
	FROM		TO	
	VIA		DEPARTURE DATE	
			DURATION	
	C. CREW REQUIRED TO OPERATE THE AIRCRAFT AND ITS EQUIPMENT			
	☐ PILOT ☐ CO-PILOT ☐ NAVIGATOR ☐ OTHER (Specify)			
	D. THE AIRCRAFT DOES NOT MEET THE APPLICABLE AIRWORTHINESS REQUIREMENTS AS FOLLOWS:			
	E. THE FOLLOWING RESTRICTIONS ARE CONSIDERED NECESSARY FOR SAFE OPERATION (Use attachment if necessary)			
	F. CERTIFICATION — I hereby certify that I am the registered owner (or his agent) of the aircraft described above; that the aircraft is registered with the Federal Aviation Administration in accordance with Section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations; and that the aircraft has been inspected and is airworthy for the flight described.			
DATE		SIGNATURE		
NAME AND TITLE (Print or type)				
G. Statement of Conformity, FAA Form 8130-9 (Attach when required)				
H. Foreign Airworthiness Certification for Import Aircraft (Attach when required)				
I. Previous Airworthiness Certificate Issued in Accordance with FAR 21.183(d) CAR (Original Attached)				
J. Current Airworthiness Certificate Issued in Accordance with FAR 21.191(a) (Copy attached)				

UNITED STATES OF AMERICA DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION SPECIAL AIRWORTHINESS CERTIFICATE			
A	CATEGORY/DESIGNATION EXPERIMENTAL		
	PURPOSE RESEARCH AND DEVELOPMENT		
B	MANUFACTURER	NAME N/A	
		ADDRESS N/A	
C	FLIGHT	FROM N/A	
		TO N/A	
D	N- 280MR	SERIAL NO. 3255	
	BUILDER: Rockwell	MODEL 500 S	
E	DATE OF ISSUANCE 12/17/91		EXPIRY 02/18/92
	OPERATING LIMITATIONS DATED 12/17/91		ARE A PART OF THIS CERTIFICATE
	SIGNATURE OF FAA REPRESENTATIVE <i>Charlie Cotton</i> Charlie Cotton (ASI) MFG		DESIGNATION OR OFFICE NO SEA-MDO AM-1035

Any alteration, reproduction or misuse of this certificate may be punishable by a fine not exceeding \$1,000 or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.

FAA FORM 8130-7 (10/82) SEE REVERSE SIDE

A	This airworthiness certificate is issued under the authority of the Federal Aviation Act of 1958 and the Federal Aviation Regulations (FAR).
B	This airworthiness certificate authorizes the manufacturer named on the reverse side to conduct production flight tests, and only production flight tests, of aircraft registered in his name. No person may conduct production flight tests under this certificate: (1) Carrying persons or property for compensation or hire; and/or (2) Carrying persons not essential to the purpose of the flight.
C	This airworthiness certificate authorizes the flight specified on the reverse side for the purpose shown in Block A.
D	This airworthiness certificate certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to meet the requirements of the applicable FAR. The aircraft does not meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention On International Civil Aviation. No person may operate the aircraft described on the reverse side: (1) except in accordance with the applicable FAR and in accordance with conditions and limitations which may be prescribed by the Administrator as part of this certificate; (2) over any foreign country without the special permission of that country.
E	Unless sooner surrendered, suspended, or revoked, this airworthiness certificate is effective for the duration and under the conditions prescribed in FAR Part 21, Section 21.181 or 21.217.

EXPERIMENTAL OPERATING LIMITATIONS

RESEARCH AND DEVELOPMENT

These operating limitations form a part of the Special Airworthiness Certificate issued for the aircraft described below, and must be displayed in the aircraft in accordance with Federal Aviation Regulation (FAR) 91.203(b).

MAKE: ROCKWELL MODEL: 500-S SERIAL NO.: 3255 REG. NO.: N280MB

1. No person may operate this aircraft for other than the purpose of Research and Development to accomplish the flight operations outlined in the applicant's letter, dated December 13, 1991, describing compliance with FAR 21.193(d), and made available to the pilot in the aircraft. Additionally, this aircraft shall be operated in accordance with applicable air traffic and general operating rules of FAR Part 91, and all additional limitations herein prescribed under the provisions of FAR 91.319(e).
2. All flights shall be conducted within the geographic boundaries of: 600 NM from the GEG VOR.
3. The pilot-in-command of this aircraft must, as applicable, hold an appropriate category/class rating and aircraft type rating or possess a "Letter of Authorization" issued by an FAA General Aviation or Air Carrier Operations Inspector.
4. This aircraft shall not be flown unless it is maintained and operated in accordance with applicable Rockwell Flight Manual and Rockwell Maintenance Instructions.
5. Day/Night VFR and IFR operation is authorized.
6. No person may be carried in this aircraft during flight unless that person is required for the purpose of the flight.
7. This aircraft shall contain the placards, markings, flight manual, etc. (or other operating instructions developed for the proposed STC modification) required by FAR 91.9.
8. This aircraft is prohibited from aerobatic flight; that is, an intentional maneuver involving an abrupt change in the aircraft's attitude, an abnormal attitude, or abnormal acceleration not necessary for normal flight.

Page 2 of 2

EXPERIMENTAL OPERATING LIMITATIONS

MAKE: Rockwell MODEL: 500-S SERIAL NO.: 3255 REG. NO.: N280MB

9. The cognizant FAA Flight Standards District Office must be notified and their response received in writing, prior to flying this aircraft after incorporating a major change as defined by FAR 21.93.
10. If aircraft, engine or propeller operating limitations are exceeded, an appropriate entry will be made in the historical records.
11. These limitations expire concurrently with the Special Airworthiness Certificate on February 18, 1992.

Charlie Cotton
Charlie Cotton
Aviation Safety Inspector
(Manufacturing)

December 17, 1991
Date

ANM-108S
Office

DEC-13-1991 15:55 FROM Merlyn Products & INTCH. TO 12062271159 P.04



Suzanne C. Evans
President

December 13, 1991

Department of Transportation
Federal Aviation Administration
Manufacturing Inspection District Office
1601 Lind Avenue SW
Renton, Washington 98055-4056

Attn: Mr. Charles Cotton

Dear Sir:

In Compliance with FAR 21.193, the following information is submitted and we hereby request that a special airworthiness certificate (experimental R & D) be issued for the aircraft described below:

BUILDER (MAKE): Rockwell MODEL: 500-S
SERIAL: 3255 REG. NO: N260MB

1. The purpose of the experiment is to flight test the aircraft. These tests will include flights to Flight Level 300.
2. The estimated time required is 60 days.
3. It is desired that flight operations should be permitted over the following area: 600 NM from the GEG VOR.

Signature: [Signature]
Title: AGENT
Address: E. 7500 Park Drive Road
Spokane, WA 99204
Telephone: 1-509-838-7500
1-800-828-7500

Enclosure:

7500 West Park Drive
Spokane, WA 99204-5726
(509) 838-7500
FAX (509) 838-7501

December 11, 1991

Department of Transportation
Federal Aviation Administration
Aircraft Inspection Division
1400 New York Avenue, NE
Washington, D.C. 20515-4000

Mr. Charles E. Brown

Enclosed with this letter are the following information as
requested and we hereby request that a search of the records
of the (Experimental E & D) be made for the aircraft
identified below:

REG. NO.: 3333
MODEL: 3333
SERIAL NO.: 3333

The purpose of the examination is to verify the
aircraft. These tests will include flight to flight
level 300.

The aircraft was received in 84 days.

It is desired that flight operations should be
conducted over the following area: 10000 ft and
see you.

Signature: _____
Title: _____
Name: _____
Address: _____
City: _____
State: _____
Zip: _____
Telephone: _____
Fax: _____

cc: _____

cc: _____
cc: _____
cc: _____

UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION—FEDERAL AVIATION ADMINISTRATION
STANDARD AIRWORTHINESS CERTIFICATE

1. NATIONALITY AND REGISTRATION MARKS N280MB	2. MANUFACTURER AND MODEL Rockwell Commander	3. AIRCRAFT SERIAL NUMBER 2255	4. CATEGORY Normal Utility
5. AUTHORITY AND BASIS FOR ISSUANCE This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1938 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness standards provided by Annex B to the Convention on International Civil Aviation, except as noted herein. <i>06/28/87</i> <i>NOTED</i> <i>64</i>			
6. TERMS AND CONDITIONS Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, inspection, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate; and the aircraft is registered in the United States.			
DATE OF ISSUANCE Replacement: 7-15-75	FAA REPRESENTATIVE <i>James M. Towery</i> James M. Towery		DESIGNATION NUMBER 7-2-04

Any alteration, reproduction, or misuse of this certificate may be punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.

FAA AIRCRAFT REGISTRY

CAMERA NO. 3 DATE: 2/13/92

RECEIVED

FEB 27 1991



MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020
For FAA Use Only
Office Identification
GL13

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make	Model
	Serial No.	Nationality and Registration Mark
2. Owner	Name (As shown on registration certificate)	Address (As shown on registration certificate)

3. For FAA Use Only

4. Unit Identification

Unit	Make	Model	Serial No.	5. Type	
				Repair	Alteration
AIRFRAME	(As described in Item 1 above)				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
Steve Buten Rt. 1 County Trunk O Sheshogan Falls Wis 53085	☒ U.S. Certificated Mechanic	397568310
	☐ Foreign Certificated Mechanic	
	☐ Certificated Repair Station	
	☐ Manufacturer	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date	Signature of Authorized Individual
2/25/91	Steve Buten 397568310

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is: ☒ APPROVED ☐ REJECTED

BY	FAA Fit. Standards Inspector	Manufacturer	☒	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station			
Date of Approval or Rejection		Certificate or Designation No.	Signature of Authorized Individual		
2/25/91		1A397568310	Steve Buten 1A397568310		

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

INSTALLED WINGLETS IAW STC #SA-1158GL
AND COMMANDER-AERO, & DRAWING # 900034.
CHANGED WEIGHT & BALANCE TO REFLECT WEIGHT
INCREASE OF 4.78 LBS AT 177 INCHES

2/25/91 Steve Butzen 1A-347568310

END

☐ Additional Sheets Are Attached

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				Form Approved OMB No. 2120-0020	
				For FAA Use Only	
				Office Identification: GEORGIA FSDO 11 7-0-11	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).					
1. Aircraft	Make Rockwell International		Model 500S		
	Serial No. 3255		Nationality and Registration Mark N280MB		
2. Owner	Name (As shown on registration certificate) Aero Metric Engineering Inc.		Address (As shown on registration certificate) 4708 North 40th Street Sheboygan, WI. 53081		
3. For FAA Use Only					
4. Unit Identification					
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	~~~~~ (As described in Item 1 above) ~~~~~			XX	
POWERPLANT					
PROPELLER					
APPLIANCE	Type		RECEIVED APR 03 1990 MID-SOUTH FSDO ATLANTA, GA		
	Manufacturer				
5. Conformity Statement					
A. Agency's Name and Address		B. Kind of Agency		C. Certificate No.	
Garrett General Aviation Services Division Bush Field Airport 1550 Hangar Road Augusta, Georgia 30906-9684 RS 701-28		U.S. Certified Mechanic		Airframe Class III RS. 701-28	
		Foreign Certified Mechanic's			
		☒ Certified Repair Station			
		Manufacturer			
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
Date March 23, 1990		Signature of Authorized Individual 			
7. Approval for Return To Service					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED					
BY	FAA Fit, Standards Inspector	Manufacturer	Inspection Authorization	Other (Specify)	
	FAA Designee	☒ Repair Station	Person Approved by Transport Canada Airworthiness Group		
Date of Approval or Rejection March 23, 1990		Certificate or Designation No. RS 701-28	Signature of Authorized Individual 		

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Repaired right wing leading edge inboard damage. Fitted and installed a new Gulfstream Commander P/n 170045-44 inboard leading edge skin and a new .040" 2024T3 aluminum skin P/n 170045-304 on inboard lower wing between leading edge skin and spar. Resealed repaired sections at fuselage and nacelle with PRC 1422 B2.

All work was accomplished per Gulfstream Aerospace Commander Division instructions, AC43.13-1A chapter 2 (section 3) And chapter 6.

Log Book entries were made. There was no weight change.

*****END*****

☐ Additional Sheets Are Attached

MCL

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				Form Approved Budget Bureau No. 04-R060.1 FOR FAA USE ONLY OFFICE IDENTIFICATION SWFSD0-67	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.					
1. AIRCRAFT	MAKE Rockwell		MODEL 500S		
	SERIAL NO. 3255		NATIONALITY AND REGISTRATION MARK N280MB		
2. OWNER	NAME (As shown on registration certificate) Aero-Metric Engineering, Inc.		ADDRESS (As shown on registration certificate) 4708 North 40th Street Sheboygan, Wisconsin 53081		
	3. FOR FAA USE ONLY				
4. UNIT IDENTIFICATION					
UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
AIRFRAME	***** (As described in item 1 above) *****			REPAIR	ALTERATION
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS		B. KIND OF AGENCY		C. CERTIFICATE NO.	
Downtown Airpark, Inc. P. O. Box 26027 Oklahoma City, Okla. 73126		☐ U.S. CERTIFICATED MECHANIC ☐ FOREIGN CERTIFICATED MECHANIC ☒ CERTIFICATED REPAIR STATION ☐ MANUFACTURER		Airframe and Powerplant RS2034	
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
DATE May 7, 1985		SIGNATURE OF AUTHORIZED INDIVIDUAL <i>[Signature]</i> Billy R. Powers, Supv. of Maintenance			
7. APPROVAL FOR RETURN TO SERVICE					
Pursuant to the authority given, reasons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED					
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION	OTHER (Specify)	
	FAA DESIGNEE	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION 5-7-85		CERTIFICATE OR DESIGNATION NO. RS2034	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>[Signature]</i> Billy R. Powers, Supv. of Maintenance		

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Modified camera ports for installation of LMK-9/15 and LMK-S per STC SA1332SW.

No weight change.

END

☐ ADDITIONAL SHEETS ARE ATTACHED

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		Form Approved Budget Bureau No. 04-R060.1	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)		FOR FAA USE ONLY	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.		OFFICE IDENTIFICATION AGL CADO	
1. AIRCRAFT	MAKE Aero-Commander	MODEL 500S	
	SERIAL NO. 3255	NATIONALITY AND REGISTRATION MARK N-280 MB	
2. OWNER	NAME (As shown on registration certificate) Michael Baker Jr., Inc.	ADDRESS (As shown on registration certificate) P. O. Box 280 Beaver, Pa. 15009	
3. FOR FAA USE ONLY			
4. UNIT IDENTIFICATION			
UNIT	MAKE	MODEL	SERIAL NO.
AIRFRAME	(As described in item 1 above)		
POWERPLANT			
PROPELLER			
APPLIANCE			
5. TYPE			
REPAIR			
ALTERATION			
X			
6. CONFORMITY STATEMENT			
A. AGENCY'S NAME AND ADDRESS Laurence Aircraft Electronics, Akron-Fulton Inter'l A/P Inc. Akron, OH 44306		B. KIND OF AGENCY U.S. CERTIFICATED MECHANIC FOREIGN CERTIFICATED MECHANIC CERTIFICATED REPAIR STATION MANUFACTURER	
		C. CERTIFICATE NO. CRS 106-13	
I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.			
DATE Sept 10, 1982		SIGNATURE OF AUTHORIZED INDIVIDUAL Raymond F. McClellan	
7. APPROVAL FOR RETURN TO SERVICE			
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is: ☒ APPROVED ☐ REJECTED			
FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION	OTHER (Specify):
FAA DESIGNER	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	
DATE OF APPROVAL OR REJECTION 10 Sept 82	CERTIFICATE OR DESIGNATION NO. CRS 106-13	SIGNATURE OF AUTHORIZED INDIVIDUAL L. A. Stabler	

FAA Form 337 (7-82)

☆ U.S. Government Printing Office 1977-772-546/141

(8320)
SEP 14 1982

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

B. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

AIRCRAFT REGISTRATION NO. N 280 MB

DATE 9-10-82

FOSTER AIRDATA R/NAV IFR CERTIFICATION

Reference Foster Airdata 511G R/NAV System, s/n 2135 with 51DSA Steering Adapter, s/n 1778, as shown on aircraft paperwork dated 11-25-81, interconnected with King KN-65 DME, using a Foster Airdata 304A0112 and number one DME Adapter Nav Receiver KX-175B with KI-525A Indicator. R/NAV System bench checked in accordance with AC-90-45A, Appendix "A" Par 2, 3b and 3c. System checked in accordance with AC-90-45A, Appendix "D" Table 2, 3, and 4.

Wiring diagram interconnected as per Foster Airdata Maintenance Manual Part AD009A0211. This installation System has been checked in accordance with AC-43.13-1A and 43.13-2A. Equipment list and new weight and balance revised.

A flight check of R/NAV System installed in this aircraft as referenced in FAA Form 337, were conducted in the Cleveland area on 9-9-82.

Two (2) R/NAV approaches were made to the Cuyahoga County Airport using the published Cuyahoga County Airport R/NAV approach procedure to runway 23.

All R/NAV Tract errors were well within the accuracies established in Table 2, 3, and 4, or Appendix "A", Advisory Circular 90-45A.

If any component of the R/NAV System is repaired or recalibrated, the R/NAV System's accuracy should be rechecked to show compliance with original certification.

All maintenance of R/NAV System will be performed as outlined in Appendix "E" of AC-9045A.

Removal of 51DSA Steering Adapter renders Nav One KI-525A inoperative.

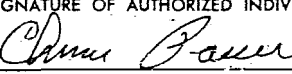
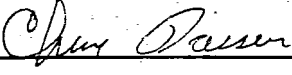
The System as installed and functioning is approved for IFR R/NAV operation.

The following placard has been installed and MUST remain in the aircraft and remain legible:

"Area Navigation use approved for IFR Enroute and Approach categories. See Flight Manual Supplement or equivalent for operation information."

*****E N D*****

☐ ADDITIONAL SHEETS ARE ATTACHED

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				Form Approved Budget Bureau No. 04-R060.1	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				FOR FAA USE ONLY	
				OFFICE IDENTIFICATION	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.					
1. AIRCRAFT	MAKE	Rockwell Commander		MODEL	500S
	SERIAL NO.	3255		NATIONALITY AND REGISTRATION MARK	U.S.A. N280MB
2. OWNER	NAME (As shown on registration certificate)		ADDRESS (As shown on registration certificate)		
	Michael Baker, Jr. Inc.		4301 Dutch Ridge Road Beaver, Pennsylvania 15009		
3. FOR FAA USE ONLY					
4. UNIT IDENTIFICATION					
UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
				REPAIR	ALTERATION
AIRFRAME	***** (As described in item 1 above) *****				X
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS		B. KIND OF AGENCY		C. CERTIFICATE NO.	
Chris Passero Chippewa Village Beaver Falls, Pennsylvania 15010		☒ U.S. CERTIFICATED MECHANIC		A&P 1468367	
		☐ FOREIGN CERTIFICATED MECHANIC			
		☐ CERTIFICATED REPAIR STATION			
		☐ MANUFACTURER			
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
DATE		SIGNATURE OF AUTHORIZED INDIVIDUAL			
10-11-80					
7. APPROVAL FOR RETURN TO SERVICE					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED					
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	☒	INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNEE	REPAIR STATION		CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	
DATE OF APPROVAL OR REJECTION		CERTIFICATE OR DESIGNATION NO.		SIGNATURE OF AUTHORIZED INDIVIDUAL	
10-11-80		1468367 AI			

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

1. Removed Shark 7 ELT

2. Installed Narco ELT 10 at same station

3. Negligible weight & balance change

4. Radio interference check completed.

5. All work done in accordance with AC 43 13 2.

☐ ADDITIONAL SHEETS ARE ATTACHED

SEP. 25 1978

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION**MAJOR REPAIR AND ALTERATION**
(Airframe, Powerplant, Propeller, or Appliance)Form Approved
Budget Bureau No. 04-R060.1FOR FAA USE ONLY
OFFICE IDENTIFICATION

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.

1. AIRCRAFT	MAKE Aero Commander	MODEL 500S
	SERIAL NO. 3255	NATIONALITY AND REGISTRATION MARK N280HB
2. OWNER	NAME (As shown on registration certificate) Michael Baker, Jr., Inc.	ADDRESS (As shown on registration certificate) 4301 Dutch Ridge Road Beaver, PA 15009

3. FOR FAA USE ONLY

4. UNIT IDENTIFICATION

UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
				REPAIR	ALTERATION
AIRFRAME	***** (As described in item 1 above) *****			XX	
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				

6. CONFORMITY STATEMENT

A. AGENCY'S NAME AND ADDRESS	B. KIND OF AGENCY	C. CERTIFICATE NO.
David D. Johnson 233 E. Maine Street Evans City, PA 16033	☒ U.S. CERTIFICATED MECHANIC	A&P 153-48-3416
	☐ FOREIGN CERTIFICATED MECHANIC	
	☐ CERTIFICATED REPAIR STATION	
	☐ MANUFACTURER	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

DATE 9/01/78	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>David D. Johnson</i>
------------------------	---

7. APPROVAL FOR RETURN TO SERVICE

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	☒ INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNEE	REPAIR STATION		
DATE OF APPROVAL OR REJECTION 9/01/78		CERTIFICATE OR DESIGNATION NO. A&P 1825010 IA	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Warren E. Duff</i>	

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

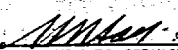
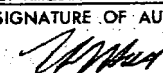
1. Repaired lower fuselage section from station -25 to +37. Spliced web part #310039-101 L.H. and web part #310038-115 R.H. from +5 to +20. Spliced angle #310185-7 station -12 to 0. Spliced angle #310186-7 station -12 to 0. Spliced hinges part #330052-101 from station #-29 to -4 R. & L. side. Replaced landing gear door and hinge aft. L. & R. Replaced Doubler L.H. 310038-59 and Doubler R.H. 310038-60. Spliced web #310042-41 and web #310042-55 with new part. Spliced bulbed angle center section 0 to +15 (stringer). Left & Right. Repaired stringers station +23 to +37 center section, repaired and/or fabricated clips and brackets where needed. Replaced bulkhead aft nosewheel part #320000-627. Replaced lower fuselage skin from station -12 to +37. Replaced D.M.E. antenna part #DMN-170-1.
2. All rivet patterns and method of repairs made in accordance with 43.13-1 Section 3.
3. Rebuilt and resealed nose gear retract cylinder and retracted gear several times in accordance with Aero Commander service manual #500S.
4. Secured and adjusted nose steering sequence valve, replaced hold down bolts in nose wheel steering cylinder.
5. Log book entry made.

END

☐ ADDITIONAL SHEETS ARE ATTACHED

W.C. 32867

cst

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				Form Approved Budget Bureau No. 04-R060.1	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				FOR FAA USE ONLY	
				OFFICE IDENTIFICATION GL-GADO-7 Columbus, Ohio	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.					
1. AIRCRAFT	MAKE	Commander		MODEL	500S
	SERIAL NO.	3255		NATIONALITY AND REGISTRATION MARK	280MB
2. OWNER	NAME (As shown on registration certificate)			ADDRESS (As shown on registration certificate)	
	Michael Baker Jr., Inc.			4301 Dutch Ridge Road Beaver, Pa. 15009	
3. FOR FAA USE ONLY					
4. UNIT IDENTIFICATION					
UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
AIRFRAME	***** (As described in item 1 above) *****			REPAIR	ALTER- ATION
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS		B. KIND OF AGENCY		C. CERTIFICATE NO.	
ElectroSonics Division AiRadio Corporation 4885 Sawyer Road Columbus, Ohio 43219		U.S. CERTIFICATED MECHANIC FOREIGN CERTIFICATED MECHANIC ☒ CERTIFICATED REPAIR STATION MANUFACTURER		Repair Station 1009 Radio Class 1, 2, & 3 Limited Instruments Limited Specialized Services	
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
DATE		SIGNATURE OF AUTHORIZED INDIVIDUAL			
June 3, 1977					
7. APPROVAL FOR RETURN TO SERVICE					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED					
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION	OTHER (Specify)	
	FAA DESIGNEE	☒ REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION 6/3/77		CERTIFICATE OR DESIGNATION NO. 1009	SIGNATURE OF AUTHORIZED INDIVIDUAL		
					

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

1. The following equipment was installed under throttle console in accordance with A.C. 43.13-2 Chapter 2 and 11: King KI-240, Indicator
2. The following equipment was installed in the nose compartment in accordance with A.C. 43.13-2 Chapter 2: KI-44, Rec. Transmitter
3. The following equipment was installed on forward bulkhead in accordance with A.C. 43.13-2 Chapter 2: King KA-49, Antenna.
4. All wires, fuses, circuit breakers, and method of installation was in accordance with A.C. 43.13-1 Chapter 11, Section 2 and 3.
5. Electrical load check completed per A.C. 43.1302 Chapter 2, Paragraph 27 and found to be within limits.
6. Operational check completed per E.A. 8310.7.

Moment 906008.60 = New E.W.O.G 171.86 = New Useful Load 1478.3
Weight 5271.7

END

C. Brown

L. Minor

☐ ADDITIONAL SHEETS ARE ATTACHED

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				Form Approved Budget Bureau No. 04-R060.1	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				FOR FAA USE ONLY	
				OFFICE IDENTIFICATION OKC GADO 2-0-09	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.					
1. AIRCRAFT	MAKE	Rockwell Commander	MODEL	500S	
	SERIAL NO.	3255	NATIONALITY AND REGISTRATION MARK	N280MB	
2. OWNER	NAME (As shown on registration certificate)		ADDRESS (As shown on registration certificate)		
	Michael Baker, Jr., Inc.		4301 Dutch Ridge Road Beaver, Pa. 15009		
3. FOR FAA USE ONLY					
4. UNIT IDENTIFICATION					
UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
AIRFRAME	***** (As described in item 1 above) *****			REPAIR	ALTERATION
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS		B. KIND OF AGENCY		C. CERTIFICATE NO.	
Downtown Airpark, Inc. P.O. Box 94846 Oklahoma City, Oklahoma 73109		U.S. CERTIFICATED MECHANIC FOREIGN CERTIFICATED MECHANIC ☒ CERTIFICATED REPAIR STATION MANUFACTURER		Airframe & Power- Plant 2034	
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse of attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
DATE Nov. 26, 1976		SIGNATURE OF AUTHORIZED INDIVIDUAL Troy E. Detamore, Supt. of Maint.			
7. APPROVAL FOR RETURN TO SERVICE					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is: ☒ APPROVED ☐ REJECTED					
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION	OTHER (Specify)	
	FAA DESIGNEE	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION 11-26-76 11-26-76		CERTIFICATE OR DESIGNATION NO. RS 2034	SIGNATURE OF AUTHORIZED INDIVIDUAL Troy E. Detamore, Supt. Of Maint.		

DATE: 9-27-83

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Installed auxiliary outboard fuel system per STC SA 976 SW, modified fuselage for installation of dual aerial survey cameras per STC SA 1182 SW. Unstalled king KCS-55 compass system, king KN-73 glideslope receiver and flite-tronics PC-16 inverter.

All installations made in accordance with manufacturers instructions and part 43 of FAR.

Weight & Balance data and equipment list revised

- E N D -

☐ ADDITIONAL SHEETS ARE ATTACHED

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION APPLICATION FOR AIRWORTHINESS CERTIFICATE		INSTRUCTIONS—Print or type. Do not write in shaded areas; these are for FAA use only. Submit original only to an authorized FAA Representative. If additional space is required, use an attachment. For special flight permits complete Sections II and VI or VII as applicable.						
I. AIRCRAFT DESCRIPTION	1. REGISTRATION MARK N12RP 280MB	2. AIRCRAFT BUILDER'S NAME (make) Rockwell Commander	3. AIRCRAFT MODEL DESIGNATION 500S (CAR 3)	4. YR. MFG. 1975	FAA CODING 7634410			
	5. AIRCRAFT SERIAL NO. 3255	6. ENGINE BUILDER'S NAME (make) Lycoming	7. ENGINE MODEL DESIGNATION IO-540-E1B5	41533				
	8. NUMBER OF ENGINES Two	9. PROPELLER BUILDER'S NAME (make) Hartzell	10. PROPELLER MODEL DESIGNATION HC-C3YR-2F/	11. AIRCRAFT IS ☒ NEW ☒ REBUILT ☒ REPAIR				
	APPLICATION IS HEREBY MADE FOR: (Check applicable items) FC8468-6R							
II. CERTIFICATION REQUESTED	A ☒ STANDARD AIRWORTHINESS CERT. (Indicate category) ☒ NORMAL ☒ UTILITY ☐ ACROBATIC ☐ TRANSPORT ☐ GLIDER ☐ BALLOON							
	B ☐ SPECIAL AIRWORTHINESS CERTIFICATE (Check appropriate items)							
	2	LIMITED	1	CLASS I				
	5	PROVISIONAL (Indicate class)	2	CLASS II				
	3	RESTRICTED (Indicate operation(s) to be conducted)	1	AGRICULTURE & PEST CONTROL	2	AERIAL SURVEYING	3	AERIAL ADVERTISING
			4	FOREST (Wild life conservation)	5	PATROLLING	6	WEATHER CONTROL
	4	EXPERIMENTAL (Indicate operation(s) to be conducted)	0	OTHER (Specify)				
			1	RESEARCH AND DEVELOPMENT	2	AMATEUR BUILT	3	EXHIBITION
	8	SPECIAL FLIGHT PERMIT (Indicate operation to be conducted then complete Section VI or VII as applicable on reverse side)	4	RACING	5	CREW TRAINING	6	MKT. SURVEY
			0	TO SHOW COMPLIANCE WITH FAR				
C ☒	MULTIPLE AIRWORTHINESS CERTIFICATE (Check appropriate Restricted Operation and Standard or Limited as applicable above)							
III. OWNER'S CERTIFICATION	A. REGISTERED OWNER (As shown on Certificate of Aircraft Registration) IF DEALER, CHECK HERE ☒							
	NAME General Aviation Division Rockwell International		ADDRESS 5001 North Rockwell Avenue Bethany, Oklahoma 73008					
	B. AIRCRAFT CERTIFICATION BASIS: (Check applicable blocks and complete items as indicated)							
	☒ AIRCRAFT SPECIFICATION OR TYPE CERTIFICATION DATA SHEET (Give No. and Revision No.) 6A1 Rev. 33 & Proposed Rev		☒ AIRWORTHINESS DIRECTIVES (Check if all applicable AD's complied with and give latest AD No.) January 1, 1974 75-9					
	☐ AIRCRAFT LISTING (Give page No(s.)) dated 5-8-75 N/A		☐ SUPPLEMENTAL TYPE CERTIFICATE (List number of each STC incorporated) N/A					
C. AIRCRAFT OPERATION AND MAINTENANCE RECORDS								
☒ CHECK IF RECORDS IN COMPLIANCE WITH FAR 91.173		TOTAL AIRFRAME HOURS— ENTER IN SHADING XXX 6.7		3 EXPERIMENTAL ONLY—Enter hours flown since last certificate issued or renewed N/A				
D. CERTIFICATION—I hereby certify that I am the owner (or his agent) of the aircraft described above; that the aircraft is registered with the Federal Aviation Administration in accordance with Section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations; and that the aircraft has been inspected and is airworthy and eligible for the airworthiness certificate requested.								
DATE OF APPLICATION 7-15-75		NAME AND TITLE (Print or type) K. L. Hale, Quality Assurance Mgr.		SIGNATURE 				
IV. INSPECTION AGENCY VERIFICATION	A. THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY: (Complete this section only if FAR 21.183 (d) applies)							
	2	FAR PART 121 OR 127 CERTIFICATE HOLDER (Give Certificate No.)	3	CERTIFICATED MECHANIC (Give Certificate No.)	6	CERTIFICATED REPAIR STATION (Give Certificate No.)		
	5	AIRCRAFT MANUFACTURER (Give Name of Firm)						
DATE		TITLE		SIGNATURE				
V. FAA REPRESENTATIVE CERTIFICATION	(Check ALL applicable blocks) I find that the aircraft described in Section I or VII meets the requirements for: ☒ The certification requested, or ☒ Amendment or modification of its current airworthiness certificate. Inspection for a special flight permit under Section VII was conducted by: ☐ FAA Inspector; certificate holder under ☐ FAR 65, ☐ FAR 121 or 127, or ☐ FAR 145.							
	DATE 7-15-75	DISTRICT OFFICE SW-EMDO-41	DESIGNEE'S SIGNATURE AND NO. Dennis R. Haile, DOA PC-203		1 FAA INSPECTOR'S SIGNATURE			

9-27-83

VI. PRODUCTION FLIGHT TESTING	A. MANUFACTURER	
	NAME	ADDRESS
	B. PRODUCTION BASIS (Check applicable item)	
	☐ PRODUCTION CERTIFICATE (Give production certificate number) ☐ TYPE CERTIFICATE ONLY ☐ APPROVED PRODUCTION INSPECTION SYSTEM	
C. GIVE QUANTITY OF CERTIFICATES REQUIRED FOR OPERATING NEEDS:		
DATE OF APPLICATION		SIGNATURE
VII. SPECIAL FLIGHT PERMIT PURPOSES OTHER THAN PRODUCTION FLIGHT TEST	A. DESCRIPTION OF AIRCRAFT	
	REGISTERED OWNER	ADDRESS
	BUILDER (Make)	MODEL
	SERIAL NUMBER	REGISTRATION MARK
	B. DESCRIPTION OF FLIGHT	
	FROM	TO
	VIA	DEPARTURE DATE
	C. CREW REQUIRED TO OPERATE THE AIRCRAFT AND ITS EQUIPMENT	
	☐ PILOT ☐ CO-PILOT ☐ NAVIGATOR ☐ OTHER (Specify)	
	D. THE AIRCRAFT DOES NOT MEET THE APPLICABLE AIRWORTHINESS REQUIREMENTS AS FOLLOWS:	
E. THE FOLLOWING RESTRICTIONS ARE CONSIDERED NECESSARY FOR SAFE OPERATION (Use attachment if necessary)		
F. CERTIFICATION—I hereby certify that I am the registered owner (or his agent) of the aircraft described above; that the aircraft is registered with the Federal Aviation Administration in accordance with Section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations; and that the aircraft has been inspected and is airworthy for the flight described.		
DATE	SIGNATURE	
VIII. AIRWORTHINESS DOCUMENTATION (FAA use only)	☒ A. Operating Limitations and Markings in Compliance with FAR 91.31 as Applicable	G. Statement of Conformity, FAA Form 317 (Attach when required)
	☐ B. Current Operating Limitations Attached	H. Foreign Airworthiness Certification for Import Aircraft (Attach when required)
	☐ C. Data, Drawings, Photographs, etc. (Attach when required)	I. Previous Airworthiness Certificate Issued in Accordance with FAR _____ CAR _____ (Original attached)
	☒ D. Current Weight and Balance Information Available in Aircraft	J. Current Airworthiness Certificate Issued in Accordance with FAR 21.183(a) _____ (Copy attached)
	☐ E. Major Repair and Alteration, FAA 337 (Attach when required)	
	☒ F. This Inspection Recorded in Aircraft Records	

Typed by #38

UNITED STATES OF AMERICA DEPARTMENT OF TRANSPORTATION—FEDERAL AVIATION ADMINISTRATION STANDARD AIRWORTHINESS CERTIFICATE			
1. NATIONALITY AND REGISTRATION MARKS N12RS	2. MANUFACTURER AND MODEL Rockwell Commander 500S	3. AIRCRAFT SERIAL NUMBER 3255	4. CATEGORY Normal Utility
5. AUTHORITY AND BASIS FOR ISSUANCE This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein. Exceptions: None			
6. TERMS AND CONDITIONS Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.			
DATE OF ISSUANCE 7-15-75	FAA REPRESENTATIVE Dennis R. Hagle		DESIGNATION NUMBER DOA PC-203
Any alteration, reproduction, or misuse of this certificate may be punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.			
FAA Form 8100-2 (7-67) FORMERLY FAA FORM 1362			

FAA AIRCRAFT REGISTRY

CAMERA NO.

1N

DATE:

9-27-83

