



US Department
of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020
5/31/2018

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 N5992Q	Serial No. 3216	
	Make MOONEY	Model M20C	Series
2. Owner	Name (As shown on registration certificate) KOZA PETER A	Address (As shown on registration certificate)	
		Address 732 PRAIRIE STAR CIR	
		City COLORADO SPRINGS	State CO
		Zip 80916	Country USA

3. For FAA Use Only

AS PER FAA MEMO Installation Approval for ADS-B OUT Systems DATED 3/2/2016 Page 3, This form can be submitted directly to the Aircraft Registration Branch without FAA approval/completion of Block 3.

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 Gregory Jones		☒ U. S. Certificated Mechanic	Manufacturer
Address 201 Whitney Dr		☐ Foreign Certificated Mechanic	C. Certificate No.
City Pueblo	State CO	☐ Certificated Repair Station	
Zip 81004	Country USA	☐ Certificated Maintenance Organization	3252805

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 <i>G. Jones</i> 2019-12-12
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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 Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	☒ Inspection Authorization	Other (Specify)

Certificate or Designation No. 3252805	Signature/Date of Authorized Individual <i>G. Jones</i> 2019-12-12
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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.

N5992Q

2019-12-12

8. Description of Work Accomplished

Nationality and Registration Mark

Date

1. Replaced existing OEM white position light with uAvionix tailBeacon assembly (UAV1002183-001 sn:2007912) in accordance with tailBeacon STC Installation Guide (UAV-1002185-001, rev B). Used existing OEM position light circuit and confirmed appropriate per AC43.13-1B, Chap 11, Sect 5 & 6.

White position light power wire was terminated to the tailBeacon red wire and white position light ground wire was terminated to the taiBeacon black wire using uAvionics supplied environmental splices (UAV-1001487-001).

Placard installed next to position light switch.

Configuration of the tailBeacon was performed with the following data:

Anonymous Mode: Off

Call Sign: N5992Q

ICAO Number: A7C183

Vso: 57

ADS-B In Capability: 978MHz

Position Light: On

Anti-collision Light: N/A

Emitter Type: Light

Aircraft Length: <=15m

Aircraft Width: <=23m

GPS Antenna Offset (Lateral): 0m

GPS Antenna Offset (Longitudinal): 8m

2. Instructions for Continued Airworthiness: uAvionix Document # UAV-1002513-001

3. Airplane Flight Manual Supplement: uAvionix Document # UAV-1002512-001.

4. Airworthiness Limitations: None.

5. Change to Weight and Balance is negligible. Equipment list was revised.

6. The above modification was found to not interfere with other installed systems and/or modifications and does not exceed 80% of alternator output. No adverse interference to radios and navigation systems from RFI was found while operating the unit during the configuration process.

7. The installed ADS-B out system was shown to meet the equipment performance requirements of 14 CFR section 91.227.

See airframe logbook entry dated this date for additional information.

— END —



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 N5992Q	Serial No. 3216	
	Make Mooney	Model M20C	Series
2. Owner	Name (As shown on registration certificate) Koza Peter A	Address (As shown on registration certificate) Address PO Box 11928	
		City Pueblo	State CO
		Zip 81001-0928	Country USA

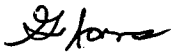
3. For FAA Use Only

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 Gregory Jones		☒ U. S. Certificated Mechanic	Manufacturer
Address 201 Whitney Dr		☐ Foreign Certificated Mechanic	C. Certificate No.
City Pueblo	State CO	☐ Certificated Repair Station	3252805
Zip 81004	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  /2016-10-10
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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 Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	☒ Inspection Authorization	Other (Specify)

Certificate or Designation No. 3252805	Signature/Date of Authorized Individual  /2016-10-10
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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

N5992Q

2016-10-10

Nationality and Registration Mark

Date

Replaced corroded Left-hand Lower Cap Splice Angle (pn: 210014-7) with new section from WS97.50 to WS110.50 as provided by Mooney Airplane Company, Inc.

Installed doubler angle nested inside aforementioned Left-hand Lower Cap Splice Angle (pn:210014-7) across seam at WS110.50 from WS103.50 to WS117.00 per AC43.13-1B, Chapter 4, Metal Structure..., Section 4, Metal Repair Procedures, Paragraphs 4.59b. and 4.58j. and subsequent, Figures 4-17 and 4-18, and Table 4-10 and Mooney Service Bulletin Manual Section 1, Operation and Service Tips, Page 1-5, Paragraph (54) Huckbolt Substitution. Doubler angle material cut from the unused portion of the aforementioned Left-hand Lower Cap Splice Angle (pn: 210014-7) provided by Mooney Airplane Company, Inc.

Installed spacers under Stiffener (pn: 210005-17) and Stiffener (pn:210005-19) at top and center to accomodate the added thickness of the doubler angle described above. Spacer material cut from the unused portion of the aforementioned Left-hand Lower Cap Splice Angle (pn: 210014-7) provided by Mooney Airplane Company, Inc.

Fastener installations include:

- all original riveted locations using AN426AD-4 and -5, and AN470AD-5 (quantity and length as required)
- five original Huckbolts (ALPPH-T6) replaced by five NAS623-3 machine bolts (length as required) with NAS1021-3 locking nuts and AN960-10, -10L washers (quantity as required)
- 16 original Huckbolts (2LPH-T5) replaced by 16 NAS623-2 machine bolts (length as required) with NAS1021-2 locking nuts and AN960-8, -8L washers (quantity as required)
- four AN23-11A machine bolts with NAS1021-3 locking nuts and AN960-10, -10L washers (quantity as required) (additional bolt locations are as described below)

Fastener requirements calculations (per AC43.13-1B):

Upper Leg, Inboard of Cut: $t = .125"$, $w = 1.0"$

From Table 4-10: number of AN-3 bolts per inch of width = $3.3 * .6 * 1.0" = 2$ bolts

- There are five NAS623-3 bolts, two NAS623-2 bolts and one AN470AD-5 rivet located in original manufacturer locations in the upper leg, inboard of the cut. This is more than the required 2 bolts.

Upper Leg, Outboard of Cut: $t = .125"$, $w = 1.0"$

From Table 4-10: number of 5/32" rivets per inch of width = $12.9 * .6 * 1.0" = 8$ rivets

- There are five AN470AD-5 rivets and two NAS623-2 bolts located in original manufacturer locations in the upper leg, outboard of the cut. Per Table 4-10, the ratio of rivets to bolts required is more than 3 to 1. Two NAS623-2 bolts are equivalent to more than three AN470AD-5 rivets. This is more than the required eight 5/32" rivets.

Lower Leg, Inboard of Cut: $t = .125"$, $w = .75"$

From Table 4-10: number of AN-3 bolts per inch of width = $3.3 * .6 * .75" = 2$ bolts

- There is one AN426AD-4 rivet located in the original manufacturer location in the lower leg, inboard of the cut. This is not adequate. Two AN23-11A bolts with associated hardware were added in this location.

Lower Leg, Outboard of Cut: $t = .125"$, $w = .75"$

From Table 4-10: number of 5/32" rivets per inch of width = $12.9 * .6 * .75" = 6$ rivets

or From Table 4-10: number of AN-3 bolts per inch of width = $3.3 * .6 * .75" = 2$ bolts

- There are four AN426AD-4 rivets located in the original manufacturer locations in the lower leg, outboard of the cut. This is not adequate. Two AN23-11A bolts with associated hardware were added in this location.

Weight change is negligible.

An entry has been made into the aircraft's permanent records for the work performed iaw 14 CFR Part 43.

----- END -----



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

5617

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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 civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make Mooney	Model M 20 C
	Serial No. 3216	Nationality and Registration Mark N5992Q
2. Owner	Name (As shown on registration certificate) Oswald Richard J	Address (As shown on registration certificate) 3393 Emerick rd. Cato NY 13033-9730

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.
David Ortiz Lone Star Aero 477 Sandau Rd San Antonio Texas 78216	☒ U.S. Certificated Mechanic	A/P # 549618553
	☐ 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 Sept 28 2000	Signature of Authorized Individual
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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 September 28 2000	Certificate or Designation No. 4618220751A	Signature of Authorized Individual
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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.)

September 28 2000 N5992Q s/n 3216 Tach 3044 total ime

Installed South West Texas Aviation, Inc. One piece 1/4 inch windshield in accordance with List no 37000 dated 2/19/80 ; from Stc # SA4332SW.

Weight and balance chanded this date to reflect this installation.

_____end_____

|| Additional Sheets Are Attached

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

Number SA4332SW

This certificate, issued to Southwest Texas Aviation, Inc.
4104 North Hills Drive
Austin, Texas 78731

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 3 of the Civil Air Regulations.

Original Product — Type Certificate Number: 2A3
Make: Mooney
Model: M20, M20A, M20B, M20C, M20D, M20E, M20F, M20G

Description of Type Design Change:

Installation of 1/4-inch single piece windshield in accordance with Drawing List No. 37000 dated 2/19/80, or later FAA approved revision.

AUTHORIZED FOR INSTALLATION
ONLY ON:

Reg: N5992Q

SN 3216

MODEL 65M20C

Limitations and Conditions:

Compatibility of this modification with other previously approved modifications must be determined by the installer.

NOT TO BE DUPLICATED

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 31, 1980

Date reissued: 6/11/86

Date of issuance: April 28, 1981

Date amended: 10/26/82; 3/28/84, Rev. 2



By direction of the Administrator

C. P. Storer
for L. B. Andriesen (Signature)
Actg. Manager, Aircraft Certification Division
Southwest Region
(Title)

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

This certificate may be transferred in accordance with FAR 21.47

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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

ACL - DETROIT 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 MOONEY	Model M20C
	Serial No. 3216	Nationality and Registration Mark N 5992Q
2. Owner	Name (As shown on registration certificate) DONALD K. SCHNEIDER	Address (As shown on registration certificate) 58224 CARBINE WASHINGTON, MI 48094

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 DuPont Lapeer Ent. Inc. 1232 Roods Lake Rd. Lapeer, Mi. 48446	B. Kind of Agency ☐ U.S. Certificated Mechanic ☐ Foreign Certificated Mechanic ☒ Certificated Repair Station ☐ Manufacturer	C. Certificate No. KW2R967K AIRFRAME I & III RADIO I & II
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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 02/23/96	Signature of Authorized Individual BURT BENTLEY <i>Burt Bentley</i>
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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 02/23/96		Certificate or Designation No. KW2R967K	Signature of Authorized Individual Burt Bentley <i>Burt Bentley</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.)

N5992Q

S.N. 3216

1. REPLACED ROTATING BEACON WITH WHELEN ANTI-COLLISION STROBE LIGHT, IN ACCORDANCE WITH WHELEN INSTALLATION AND SERVICE MANUAL AND STC SA800EA.
2. INSTALLED BRACKETT AIR FILTER ASSEMBLY BA-6110 IN ACCORDANCE WITH BRACKETT INSTRUCTION SHEET PART NUMBER BA-6105 AND STC SA71GL.
3. INSTALLED TANIS AIRCRAFT SERVICES ENGINE HEATER, PART NUMBER TAS-003, IN ACCORDANCE WITH INSTALLATION INSTRUCTIONS #100 AND TAS DRAWING NUMBER 100A.
4. UPDATED AIRCRAFT EQUIPMENT LIST. WEIGHT AND BALANCE CHANGE NEGLIGABLE.

-----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 66-23	
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 Moorley		Model M20C		
	Serial No. 3216		Nationality and Registration Mark N5992Q		
2. Owner	Name (As shown on registration certificate) Donald Schneider		Address (As shown on registration certificate) 58224 Carbine Washington MI 48094		
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					X
PROPELLER					
APPLIANCE	Type				
	Manufacturer				
6. Conformity Statement					
A. Agency's Name and Address		B. Kind of Agency		C. Certificate No.	
Ronald J. Rottmann 3993 Howland Road Almont, MI 48003		☒ U.S. Certified Mechanic		AP374762097	
		☐ 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 3/22/95		Signature of Authorized Individual <i>Ronald J. Rottmann</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	Other (Specify)	
	FAA Designee	Repair Station	Person Approved by Transport Canada Airworthiness Group		
Date of Approval or Rejection 3/22/95		Certificate or Designation No. 370660403	Signature of Authorized Individual <i>Janice Bush</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.)

N 5992Q

22 March 95

2490.4 Hrs. Total Time

Description: Installed modified nose gear truss bushing in accordance with Lake Aero Styling and Repair Drawing List Report No. 122A using parts supplied by Lake Aero Styling.

Basis for Approval: STC SA3540NM

Weight Change: None

End

☐ Additional Sheets Are Attached

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 AGL-ESDO-63	
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 Mooney		MODEL M20C		
	SERIAL NO. 3216		NATIONALITY AND REGISTRATION MARK N599Q		
2. OWNER	NAME (As shown on registration certificate) Grover W. Walker		ADDRESS (As shown on registration certificate) 76400 Romeo Plank Romeo, MI. 48065		
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.
G. B. DuPont Co., Inc. 1232 Roods Lake Rd. Lapeer, MI. 48446			U.S. CERTIFICATED MECHANIC		RS3046
			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 04/22/88			SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Brent J. Hudecek</i> Brent J. Hudecek		
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		
	FAA DESIGNEE	☒ REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION 04/22/88		CERTIFICATE OR DESIGNATION NO. for RS3046		SIGNATURE OF AUTHORIZED INDIVIDUAL Burt Bentley <i>Burt Bentley</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.)
- A. 1. Installed II Morrow Apollo 604FB loran w/A-16 antenna.
2. Installed Terra AT3000 encoder.
3. Installed 31101 Directional Gyro.
 - B. 1. Items A. 1. & A. 2. installed in existing radio cutouts and wired to existing aircraft wiring per II Morrow & Terra installation manuals.
2. Item A. 3. installed in existing instrument cutout and plumbed into vacuum system.
 - C. 1. New weight and balance computed and entered in aircraft paperwork.
2. Aircraft placarded "Loran system for VFR use only".

-----END-----

☐ ADDITIONAL SHEETS ARE ATTACHED

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 AGL-FSDO-63	
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 Mooney		MODEL M20C		
	SERIAL NO. 3216		NATIONALITY AND REGISTRATION MARK N59920 N-59920		
2. OWNER	NAME (As shown on registration certificate) Grover W. Walker		ADDRESS (As shown on registration certificate) 76400 Romeo Plank Romeo, MI. 48065		
3. FOR FAA USE ONLY					
4. UNIT IDENTIFICATION					5. TYPE
UNIT	MAKE	MODEL	SERIAL NO.	REPAIR	ALTER- ATION
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.
G. B. DuPont Co., Inc. 1232 Roods Lake Rd. Lapeer, MI. 48446			U.S. CERTIFICATED MECHANIC		RS3046
			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 05/02/88			SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Brent J. Hudecek</i> Brent J. Hudecek		
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		
	FAA DESIGNEE	☒ REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION 05/02/88		CERTIFICATE OR DESIGNATION NO. for RS3046		SIGNATURE OF AUTHORIZED INDIVIDUAL Burt Bentley <i>Burt Bentley</i>	

NOTICE

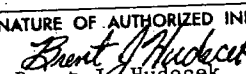
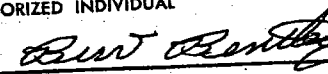
Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

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

- A. 1. Removed Narco AT6-A transponder.
- B. 1. Installed Narco AT150 transponder.
- C. 1. Item B. 1. installed in existing radio cutout and wired to existing aircraft wiring per Narco installation manual.
- D. 1. New weight and balance computed and entered in aircraft paperwork.

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	
					OFFICE IDENTIFICATION AGL-FSDO-63	
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	Mooney		MODEL	M20C	
	SERIAL NO.	3216		NATIONALITY AND REGISTRATION MARK	N5992Q	
2. OWNER	NAME (As shown on registration certificate)			ADDRESS (As shown on registration certificate)		
	Gover W. Walker & Donald K. Schneider			76400 Romeo Plank Romeo, MI. 48065		
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.	
G. B. DuPont Co., Inc. 1232 Roods Lake Rd. Lapeer, MI. 48446			U.S. CERTIFICATED MECHANIC		RS3046	
			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			
06/24/87			 Brent Hudecek			
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 RT. 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		
06/24/87		FOR RS 3046		Burt Bentley 		

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. 1. Removed Narco Mark 12 NAV-COM w/VOA-6 VOR-LOC indicator.
- B. 1. Installed King KMA24 Audio panel-marker beacon receiver.
2. Installed King KX155 NAV-COM.
3. Installed King KI209 VOR-LOC-GS indicator.
- C. 1. Items B1, B2, B3 installed in existing radio cutouts and wired to existing aircraft wiring per King avionics installation manuals.
- D. 1. New weight and balance computed and entered in aircraft paperwork.

END

☐ ADDITIONAL SHEETS ARE ATTACHED

UNITED STATES OF AMERICA FEDERAL AVIATION AGENCY	
CERTIFICATE OF AIRWORTHINESS	
1. NATIONALITY AND REGISTRATION MARKS N75982Q	2. AIRCRAFT AIRWORTHINESS CLASSIFICATION Standard (Normal)
3. This Certificate of Airworthiness is issued pursuant to the Federal Aviation Act of 1958. The aircraft identified hereon is considered airworthy when maintained and operated in accordance with the Civil Air Regulations and applicable aircraft Operation Limitations.	
4. This Certificate will remain in effect as long as the aircraft is maintained in accordance with Part 43 of the Civil Air Regulations unless surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Agency.	
5. DATE OF ISSUANCE 10-12-65	7. DESIGNATION NO. DMCR SW-1
6. Any alteration or misuse of this Certificate is punishable by a fine of not exceeding \$1,000 or imprisonment not exceeding 3 years, or both.	

FAA AIRCRAFT REGISTRY
CAMERA NO. 31 DATE: 6-25-85

DATE: 6-25-85

FEDERAL AVIATION AGENCY APPLICATION FOR AIRWORTHINESS CERTIFICATE		FORM APPROVED BUDGET BUREAU NO. 04-R058.1
INSTRUCTIONS: Please print or type. Submit this form, original only, to an authorized Federal Aviation Agency Representative. Use attachments or extra sheets as necessary.		
PART I AIRCRAFT DESCRIPTION	1. AIRCRAFT IDENTIFICATION NO. N 5992Q	2. AIRCRAFT MAKE Mooney
	4. AIRCRAFT SERIAL NUMBER 3216	5. ENGINE MAKE Lycoming
	7. NUMBER OF ENGINES One	8. PROPELLER MAKE Hartzell
	3. AIRCRAFT MODEL M-20C	6. ENGINE MODEL O-360-AID
		9. PROPELLER MODEL HC-C2YK-1A/7666A-2
PART II CERTIFICATION REQUESTED	1. APPLICATION IS HEREBY MADE FOR: A. ☒ ORIGINAL ISSUANCE OF CERTIFICATE (AIRCRAFT ☒ NEW ☐ USED ☐ IMPORT) (CAR 1) B. ☐ AMENDMENT OF CURRENT CERTIFICATE (CAR 1.62) C. ☐ MULTIPLE CERTIFICATE (REF. CAR 1 AND 8) D. ☐ OTHER _____ (Specify)	
	2. AIRWORTHINESS CLASSIFICATION (Check appropriate item(s)) It is requested that an Airworthiness Certificate be issued to permit operation of the above described aircraft in the following classification(s): A. ☒ STANDARD [NORMAL, UTILITY, ACROBATIC, TRANSPORT CATEGORIES] (REF. CAR 1) B. ☐ LIMITED (REF. CAR 9) C. ☐ RESTRICTED (REF. CAR 8) (Check operation(s) to be conducted) (1) ☐ AGRICULTURAL AND PEST CONTROL (4) ☐ PATROLLING (2) ☐ AERIAL ADVERTISING (5) ☐ FOREST AND WILDLIFE CONSERVATION (3) ☐ AERIAL SURVEYING (6) ☐ WEATHER CONTROL (7) ☐ OTHER _____ (Specify) D. ☐ EXPERIMENTAL (REF. CAR 1) (Check operation(s) to be conducted) (1) ☐ AMATEUR-BUILT (3) ☐ EXHIBITION (2) ☐ EXPERIMENT (RESEARCH AND DEVELOPMENT) (4) ☐ RACING (5) ☐ TO SHOW COMPLIANCE WITH CAR _____ E. ☐ (OTHER) _____ (Specify)	
	3. HAS THE APPLICANT PREVIOUSLY BEEN DENIED AN AIRWORTHINESS CERTIFICATE FOR THIS AIRCRAFT? ☐ YES (Explain) ☒ NO	
PART III INSPECTION AGENCY VERIFICATION (Not applicable to newly manufactured aircraft)	1. IN ACCORDANCE WITH CAR 1.67(d) THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY: A. ☐ AIRCRAFT MANUFACTURER (Name of Firm) _____ N/A B. ☐ CERTIFICATED DOMESTIC REPAIR STATION, CERTIFICATE NO. _____ C. ☐ CERTIFICATED AIR CARRIER, CERTIFICATE NO. _____ D. ☐ CERTIFICATED MECHANIC (Inspection Authorization) NO. _____	
	DATE _____	SIGNATURE OF AUTHORIZED INDIVIDUAL _____ TITLE _____
PART IV OWNER'S CERTIFICATION	I hereby certify that the aircraft described above has been inspected and is airworthy and eligible for the classification(s) requested. I further certify that I am the registered owner (or his agent) of this aircraft which is registered* with the Federal Aviation Agency, as required by the Federal Aviation Act of 1958 and the applicable Federal Aviation Regulations and Regulations of the Administrator and that the following evidence of registration is displayed in the aircraft. (Check and complete appropriate item(s); this includes completion of items 1 and 2 on the reverse side of this form.) 1. ☐ CERTIFICATE OF REGISTRATION, FAA FORM 500 (PART A) DATE OF ISSUE _____ 2. ☐ APPLICATION FOR REGISTRATION, FAA FORM 500 (PART B). FAA FORM 500 FORWARDED TO _____ FAA AIRCRAFT REGISTRATION BRANCH ON (Date) _____ 3. ☒ DEALER'S AIRCRAFT REGISTRATION CERTIFICATE, FAA FORM 1707 (Expiration date) 4-26-66 4. REGISTERED OWNER'S FULL NAME AND PERMANENT MAILING ADDRESS (No., Street, City, Zone and State) Mooney Aircraft, Inc. Box 72 Kerrville, Texas 5. SIGNATURE OF REGISTERED OWNER OR AUTHORIZED AGENT E. B. Hunnicutt *In order to be eligible for registration an aircraft must be owned by a citizen of the United States as defined by Section 101(13) of the Federal Aviation Act of 1958. 6. DATE 10-12-65 7. TITLE Treasurer 8. ATTACHMENTS (Check which) A. ☐ FAA FORM 337 C. ☐ WEIGHT AND BALANCE REPORT E. ☐ OTHER (List separately) B. ☐ FAA FORM 317 D. ☐ DATA, DRAWINGS, PHOTOGRAPHS, ETC. (List separately)	

FEDERAL AVIATION AGENCY
AIRCRAFT INSPECTION REPORT

(Items 1 and 2 will be verified and all other applicable items will be completed by an authorized FAA representative.)

1. AIRCRAFT CERTIFICATION BASIS

The aircraft described in PART I on the reverse of this form has been inspected and found to conform to the following:

- A. ☒ AIRCRAFT SPECIFICATION OR TYPE CERTIFICATE DATA SHEET NO. 2A3 REVISION NO. 11
B. ☐ AIRCRAFT LISTING, PAGE NO.(S) _____
C. ☒ AIRWORTHINESS DIRECTIVE SUMMARY 1-1-63 (YEAR) THROUGH CARD NO. 65-22
D. ☐ SUPPLEMENTAL TYPE CERTIFICATE NO.(S) _____
E. ☐ OTHER _____
(Specify)

2. AIRCRAFT AND ENGINE OPERATING RECORDS

- A. ☒ AIRCRAFT NEW—NO PREVIOUS OPERATION OR MAINTENANCE HISTORY
B. ☒ COMPLIANCE WITH APPLICABLE AIRWORTHINESS DIRECTIVES RECORDED
C. ☒ AIRCRAFT RECORDS INDICATE THE AIRFRAME HAS BEEN OPERATED A TOTAL OF 3.05 HOURS
D. ☒ ENGINE RECORDS INDICATE THE FOLLOWING OPERATION:
SERIAL NO. L-8819-36A TOTAL HOURS 3.05 TIME SINCE OVERHAUL N/A
SERIAL NO. _____ TOTAL HOURS _____ TIME SINCE OVERHAUL _____
SERIAL NO. _____ TOTAL HOURS _____ TIME SINCE OVERHAUL _____
SERIAL NO. _____ TOTAL HOURS _____ TIME SINCE OVERHAUL _____

3. AIRWORTHINESS DOCUMENTATION

- A. ☐ CURRENT OPERATING RESTRICTIONS (LIMITATIONS), COPY ATTACHED
B. ☐ CURRENT OPERATING RESTRICTIONS (LIMITATIONS), AVAILABLE IN AIRCRAFT
C. ☐ CURRENT APPROVED AIRCRAFT FLIGHT MANUAL, AVAILABLE IN AIRCRAFT
D. ☒ CURRENT WEIGHT AND BALANCE INFORMATION, AVAILABLE IN AIRCRAFT
E. ☒ THIS INSPECTION HAS BEEN RECORDED IN THE AIRCRAFT RECORDS
F. ☐ FAA FORM 337, MAJOR REPAIR AND ALTERATION, (ATTACH WHEN REQUIRED)
G. ☐ FAA FORM 317, STATEMENT OF CONFORMITY, (ATTACH WHEN REQUIRED)
H. ☐ WEIGHT AND BALANCE REPORT, (ATTACH WHEN REQUIRED)
I. ☐ DATA, DRAWINGS, PHOTOGRAPHS, ETC., (ATTACH WHEN REQUIRED)
J. ☒ AIRWORTHINESS CERTIFICATE, FAA FORM 1362, ISSUED IN ACCORDANCE WITH CAR 21.183 (a)
K. ☐ PREVIOUS FAA FORM 1362, ISSUED IN ACCORDANCE WITH CAR _____

BY _____

(Name of Issuing Representative)

(Designation Number)

4. FAA REPRESENTATIVE CERTIFICATION

I have inspected the aircraft described on the reverse and, on the basis of the application and the foregoing, find it conforms to its type certificate and that it is in condition for safe operation.

5. REGISTRATION INDICATED ON REVERSE IS PROPERLY DISPLAYED IN AIRCRAFT ☐ YES ☒ NO (Explain)

Current Form FAA-1707

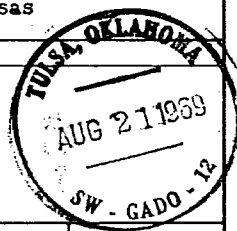
DESIGNEE'S SIGNATURE BY <u>Robert A. Gumpsternberg</u> CLAUDE A. GUMPSTERNBERG	DESIGNATION NO. <u>DMCR SW-1</u>	DATE <u>10-12-65</u>
FAA INSPECTOR'S SIGNATURE <u>Mary L. Smith</u> CLAUDE A. BANDY	FAA DISTRICT OFFICE NO. <u>SW-EMDO-43</u>	DATE <u>10-18-65</u>
REMARKS		A. ☒ ACCEPTED B. ☐ REINSPECTED C. ☐ SPOT CHECKED

9. ATTACHMENT(S) IN ADDITION TO THOSE LISTED ON REVERSE (List separately)

Copy Form FAA-1362B

WICK

FEDERAL AVIATION AGENCY				Form Approved Budget Bureau No. 04-R060.1	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				FOR FAA USE ONLY OFFICE IDENTIFICATION TUL GADO 2-1-12	
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 Mooney	MODEL M 20-C			
	SERIAL NO. 3216	NATIONALITY AND REGISTRATION MARK N 59920			
2. OWNER	NAME (As shown on registration certificate) MUM Flying Service		ADDRESS (As shown on registration certificate) Box 400, Sedan, Kansas		
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.
Francis Rourke 700 Wyandotte Bartlesville, Okla.			☒ U.S. CERTIFICATED MECHANIC		12651 AP
			☐ 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 8/19/69			SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Francis Rourke</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 Agency and is ☒ APPROVED ☐ REJECTED					
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	☒ INSPECTION AUTHORIZATION	OTHER (Specify) I.A. 12651	
	FAA DESIGNEE	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION 8/19/69		CERTIFICATE OR DESIGNATION NO. I.A. 12651	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Francis Rourke</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 ALCOR Exhaust Gas Temperature Probe and Indicator, in accordance with ALCOR instruction and installation manual and in accordance with STC SA96SW.
Neglect weight change.

OKLAHOMA CITY, OKLA

Aug 25 - 9 AM '85

CONVEYANCE LED WITH
FAA AIRCRAFT REGISTRY

☐ ADDITIONAL SHEETS ARE ATTACHED