



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))

<b>1. Aircraft</b>	Nationality and Registration Mark <b>N9224Y</b>	Serial No. <b>31P-8414012</b>
	Make <b>PIPER</b>	Model <b>PA-31P-350</b>
<b>2. Owner</b>	Name (As shown on registration certificate) <b>GOLD COAST TURBINE INC</b>	Address (As shown on registration certificate) Address <b>3526 MARSHA LN</b>
		City <b>VERO BEACH</b> State <b>FLORIDA</b> Zip <b>32967-5654</b> Country <b>UNITED STATES</b>

**3. For FAA Use Only**

<b>4. Type</b>		<b>5. Unit Identification</b>			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type	_____	_____
			Manufacturer		

**6. Conformity Statement**

<b>A. Agency's Name and Address</b>		<b>B. Kind of Agency</b>		
Name <b>QUEST AVONICS INC</b>	Address <b>1550 S.W. 60th AVE</b>	U. S. Certificated Mechanic	Manufacturer	
City <b>OCALA</b> State <b>FLORIDA</b>	Zip <b>34474</b> Country <b>UNITED STATES</b>	Foreign Certificated Mechanic	C. Certificate No.	
		<input checked="" type="checkbox"/> Certificated Repair Station	<b>QVNR604L</b>	
		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
<input type="checkbox"/>	

**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 <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Rejected					
<b>BY</b>	FAA Fit. Standards Inspector		Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	<input checked="" type="checkbox"/>	Repair Station	Inspection Authorization	Other (Specify)
Certificate or Designation No. <b>QVNR604L</b>		Signature/Date 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.)*

N9224Y

February 28, 2022

Nationality and Registration Mark

Date

Removed King KT-79 Transponder.

Installed and tested Garmin GTX-335 ADS-B Compliant Transceiver in accordance with Garmin GTX 3XX Part 23 AML STC Installation Manual PN 190-00734-10 and FAA Policy Notice No. N8900.362.

The GTX-335 was installed IAW Garmin STC SA01714WI. The installed ADS-B OUT system was shown to meet the equipment performance requirements of 14 CFR part 91.227.

Change to Weight and Balance Data is negligible.

Performed an Electrical Load Analysis and found total load does not exceed 80% of rated capacity.

Inserted FAA Approved Airplane Flight Manual Supplement, Garmin Document No. 190-00734-15, Revision 5 dated June 1, 2021 in the Pilot's Operating Handbook.

Reference Instructions for Continued Airworthiness, Garmin Document No. 190-00734-11, Revision 8, dated June 1, 2021.

-----END-----

Additional Sheets Are Attached

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

*Number* SA01714WI

*This certificate issued to* Garmin International, Inc.  
1200 East 151<sup>st</sup> Street  
Olathe, KS 66062

*certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 23\* of the Federal Aviation Regulations.*

*Original Product--Type Certificate*

*Number:*

*\* See attached Approved Model List (AML) No.*

*Make:*

*SA01714WI dated May 1, 2013 or later FAA-*

*Model:*

*approved revision for list of approved aircraft models*

*and applicable airworthiness regulations.*

*Description of Type Design Change:*

Installation of Garmin transponders: (a) GTX 330/330D/33/33D or GTX 335/335R/335D/335DR with ADS-B Out functionality; (b) GTX 345/345R/345D/345DR with ADS-B Out and In functionality; (c) GTX 335R/335DR with ADS-B Out functionality in select airplanes installed with G950/G1000 systems; or (d) GTX 345R/345DR with ADS-B Out and In functionality in select airplanes installed with G950/G1000 systems.

*Data Required:*

- (1) Garmin Master Drawing List (MDL) 005-00734-04, Revision 1, dated May 1, 2013 or later FAA-approved revision.
- (2) Garmin Airplane Flight Manual Supplement or Supplemental Airplane Flight Manual (AFMS), 190-00734-15, Revision 1, dated May 1, 2013 or later FAA-approved revision.

*Limitations and Conditions:*

- (1) Compatibility of this design change with previously approved modifications must be determined by the installer.
- (2) Aircraft installations involving the Garmin transponder models without an internal GPS require the previous installation of an approved ADS-B position source. Refer to the design data specified in the Master Drawing List (MDL) listed above for specific hardware and software requirements.

*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:* August 7, 2012

*Date reissued:*

*Date of issuance:* May 1, 2013

*Date amended:* April 29, 2014; March 8, 2016;  
September 9, 2019

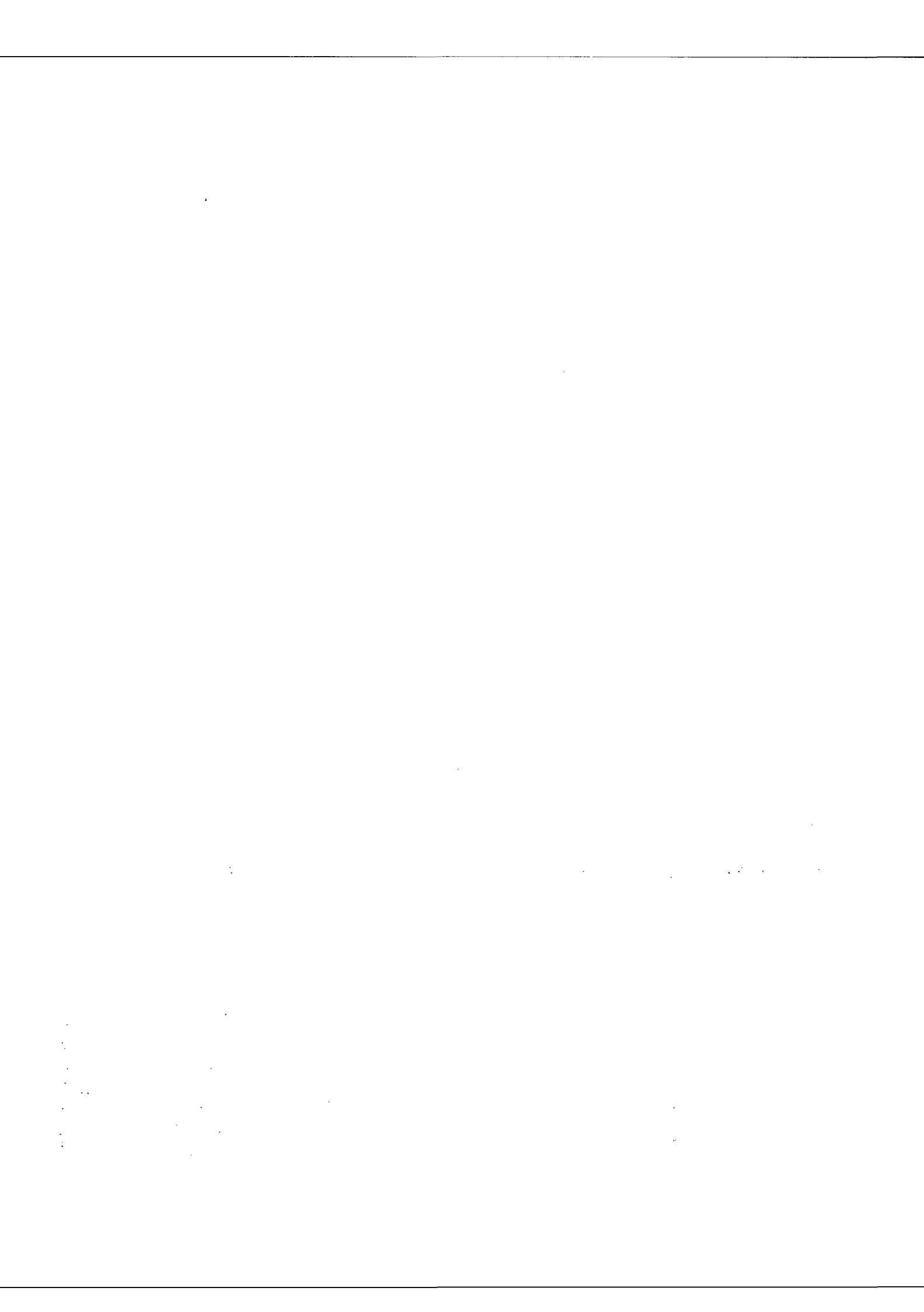
*By direction of the Administrator*

*JR Brownell*  
(Signature)

JR Brownell  
ODA STC Unit Administrator  
ODA-240087-CE  
Garmin International, Inc.

*(Title)*

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



**FAA Approved Model List (AML) STC SA01714WI**

Airplane Make (TCDS Holder) [common name or previous make]	Airplane Model Designation	Type Certificate Number	TC Certification Basis <sup>(1)</sup>	Master Drawing List Revision (005-00734-04)	AML Amendment/Date
Piper Aircraft, Inc. (Piper Aircraft, Inc.) [The New Piper Aircraft, Inc.]	PA-46-310P	A25SO	FAR 23	1	Original 5/1/2013
	PA-46-350P, PA-46R-350T, PA-46-500TP	A25SO	FAR 23	1	Original 5/1/2013
	PA-42-720R	A32SO	FAR 23, FAR 25	1	Original 5/1/2013
	PA-30, PA-39, PA-40	A1EA	CAR 3	1	Original 5/1/2013
	PA-31P, PA-31T, PA-31T1, PA-31T2, PA-31T3, PA-31P-350	A8EA	CAR 3 FAR 23	1	Original 5/1/2013
Polskie Zaklady Lotnicze Spolka zo.o (Polskie Zaklady Lotnicze Spolka zo.o) [PZL Mielec]	PZL M26 01	A44CE	FAR 21 FAR 23	1	Original 5/1/2013
Reims Aviation SA (Reims Aviation S.A.)	F406	A54EU	FAR 23	1	Original 5/1/2013
Revo Inc. (Revo, Incorporated) [Colonial Aircraft Co; Lake Aircraft Corp; Consolidated Aeronautics; Global Amphibians]	Colonial C-1, Colonial C-2, Lake LA-4, Lake LA-4A, Lake LA-4P, Lake LA-4-200, Lake Model 250	1A13	CAR 3	1	Original 5/1/2013
RUAG Aerospace Services GmbH (RUAG Aerospace Services GmbH) [Dornier-Werke G.M.b.H.; DORNIER LUFTFAHRT GmbH; Fairchild Dornier GmbH]	Do 28 A-1, Do 28 B-1 Do 27 Q-6	7A13 A8IN	CAR 3 CAR 3	1 1	Original 5/1/2013 Original 5/1/2013
RUAG Aerospace Services GmbH (RUAG Aerospace Services GmbH) [Fairchild Dornier GmbH]	Dornier 228-100, Dornier 228-101, Dornier 228-200, Dornier 228-201, Dornier 228-202, Dornier 228-212, Do 28 D, Do 28 D-1	A16EU	FAR 21 FAR 23	1	Original 5/1/2013





1200 East 151<sup>st</sup> Street  
Olathe, KS 66062  
P: 913-397-8200 F: 913-397-8282

July 11, 2018

Subject: Authorization for STC Use  
AML STC SA01714WI

Garmin authorized dealers are hereby granted permission to use Garmin AML STC SA01714WI data to modify aircraft.

A handwritten signature in black ink, appearing to read "Emmett Griffith".

Emmett Griffith  
Director of Engineering  
Garmin International, Inc.





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

**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 PIPER	Model PA31P-350
	Serial No. 31P-8414012	Nationality and Registration Mark N9224Y
2. Owner	Name (As shown on registration certificate) DO NASCIMENTO MARCIO KLEBIER	Address (As shown on registration certificate) 106-D RUE LEON BARBIER CHATOU, FRANCE 78400

**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.
Avionics Masters 1001 W. Cypress Creek Road, Suite 309 Fort Lauderdale, FL 33309 (954) 491-2580		U.S. Certified Mechanic		Class I, II, Ltd. III VIMR095K
		Foreign Certified Mechanic		
		XX 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 3/27/11	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 Flt. Standards Inspector	XX	Repair Station	Inspection Authorization	Other (Specify)
	FAA Designee			Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 3/27/11		Certificate or Designation No. VIMR095K		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.)

#### PIPER - PA31P-350 - N9224Y - S/N 31P-8414012

	MFG:	MODEL:	WEIGHT:	ARM:
REMOVED	KING	KNS-81	5.0	68.0
	KING	KLN-94	3.0	64.0
	KING	KY-196	3.2	63.0
	AMERIKING	AK-950	0.5	64.0
INSTALLED	KING	KA-92	0.5	135.0
	GARMIN	GNS-530W	9.0	64.0
	GARMIN	GA-35	0.5	86.0

REMOVED KNS-81 RNV, KLN-94 GPS RECEIVER, KY-196, AND AK-950 ANNUNCIATOR SELECTOR FROM THE RADIO PANEL. REMOVED KING KA-92 GPS ANTENNA FROM CABIN OVERHEAD

INSTALLED GNS-530W IN EXISTING SPACE IN THE RADIO PANEL. THE INSTALLATION IS APPROVED UNDER STC SA01933LA REV. ORIGINAL, DATED NOVEMBER 6, 2006 AND THE ASSOCIATED APPROVED MODEL NUMBER LIST. THE MODEL 530W IS ENROUTE, TERMINAL, AND PRECISION APPROACH CERTIFIED. CONNECTION TO THE ALTITUDE ENCODER IS INSTALLED TO PROVIDE DIGITAL ALTITUDE TO THE GPS RECEIVER. GNS 530W SYSTEM DATA IS DISPLAYED ON THE PILOT'S HSI AND THE DATA IS EITHER GPS OR VOR/LOC AS SHOWN ON THE DISPLAY ON THE GNS-530W. THE GNS-530W IS AN IFR APPROVED SYSTEM. THE EQUIPMENT WAS INSTALLED I.A.W. GARMIN INSTALLATION MANUAL P/N 190-00357-02 REV. B, DATED NOV, 2006. THE GA-35 GPS/WAS ANTENNA WAS INSTALLED ON TOP OF THE CABIN IN PLACE OF THE EXISTING KING KA-92 GPS ANTENNA IN ACCORDANCE WITH THE GARMIN INSTALLATION MANUAL.

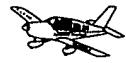
ALL WORK COMPLETED IAW GARMIN INSTALLATION MANUAL P/N 190-00357-02 REV. B, DATED NOV, 2006, AND AC 43.13, 1B Ch. 11, Sections 1,2,3,4,5,6,7; and AC 43.13 2B Ch. 1,2,3.

THE TOTAL ELECTRICAL LOAD IS LESS THAN ALTERNATOR CAPACITY.

- 1) THE GPS EQUIPMENT INSTALLED IS COMPATIBLE WITH ALL OTHER INSTALLED EQUIPMENT AND PREVIOUS ALTERATIONS.
- 2) THE EQUIPMENT INSTALLED HAS NO CERTIFIED PROPERTIES WHICH SHOULD ADVERSELY IMPACT CONTINUED SAFE FLIGHT AND LANDING FOR ANY TYPE OF FLIGHT OPERATION APPROVED FOR THIS AIRCRAFT.
- 3) THE EQUIPMENT INSTALLED WAS FLIGHT CHECKED AND PERFORMS ALL FUNCTIONS IN ACCORDANCE WITH THE MANUFACTURERS PUBLISHED SPECIFICATIONS. I CERTIFY THAT THE FUNCTIONAL FLIGHT EVALUATION WAS PERFORMED AND THE GPS SYSTEM AS INSTALLED MEETS THE REQUIREMENTS OF AC20-138A.
- 4) THE AIRCRAFT WEIGHT AND BALANCE AND EQUIPMENT LIST HAVE BEEN UPDATED TO REFLECT THE EQUIPMENT INSTALLED.
- 5) CHANGES TO OPERATIONAL LIMITATIONS AND AN APPROVED FLIGHT MANUAL SUPPLEMENT DATED: JULY 31,2009, HAVE BEEN ENTERED IN THE AIRCRAFT APPROVED FLIGHT MANUAL OR OPERATING HANDBOOK.
- 6) AN ENTRY DOCUMENTING THIS INSTALLATION AND IFR APPROVAL STATUS HAS BEEN MADE IN THE AIRCRAFT LOG.
- 7) COMPLETED COMPASS SWING AND CALIBRATION.

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS: REFERENCE GARMIN P/N 190-00357-02 REV. B, DATED NOV, 2006,

XXXXXXXXXXXXXXXXXXXXXXXXXXXXENDXXXXXXXXXXXXXXXXXXXX



## AVIONICS MASTERS

1001 W. Cypress Creek Rd., SUITE 309

FT. LAUDERDALE, FL 33309

Phone: (954) 491-2580 Fax: (954) 491-5279

April 1, 2014

Federal Aviation Administration  
Aircraft Registration Branch, AFS-750  
PO Box 25504  
Oklahoma City, OK. 73125

To Whom It May Concern:

The following paperwork is being submitted for filing.

1. 337 for N9224Y, Do Nascimento Marcio Klebier, for filing. Dated MAR/27/2014

If you should have any questions please call me at (954) 491-2580.

Thank You!

Sincerely,

Charles L. Hunt Jr.





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 N9224Y	Serial No. 31P-8414012		
	Make PIPER	Model PA31P-350	Series Mojave	
2. Owner	Name (As shown on registration certificate) Do Nascimento, Marcio Kleber	Address (As shown on registration certificate) Address 106-D Rue Leon Barbier City Chatou Zip 78400 State France Country France		

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 § 43.7.**

Date: 01-31-11 Inspector: Stan Bland

**ASO-FSDO-15**

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type Manufacturer	_____	_____

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency		
Name <u>Sun Aviation Inc.</u>	Address <u>3102 Cherokee Drive</u>	City <u>Vero Beach</u>	State <u>FL</u>	Zip <u>32961</u> Country <u>USA</u>
		<input type="checkbox"/> U. S. Certificated Mechanic <input type="checkbox"/> Manufacturer <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> C. Certificate No. <input checked="" type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Certificated Maintenance Organization <input type="checkbox"/> ECWD470D		

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	<input type="checkbox"/> Signature/Date of Authorized Individual <i>Timothy E. Eunge</i> 11-2-2011
---	---

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	<input checked="" type="checkbox"/> Repair Station	Inspection Authorization	Other (Specify)

Certificate or Designation No. ECWD470D	Signature/Date of Authorized Individual <i>Timothy E. Eunge</i> 11-2-2011
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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.)

N9224Y

12-2-2011

Nationality and Registration Mark

Date

A satisfactory flight check was conducted on the Bendix/King KLN-94 GPS system previously installed by FAA Form 337 dated August 19, 2011. The GPS system was found to meet the system accuracy requirements of AC 20-138B, chapter 20.

FAA Approved Flight Manual Supplement dated OCT 31 2011 was installed into the Aircraft's Approved Flight Manual.

Removed Placard "GPS FOR VFR USE ONLY" and replaced with "GPS FOR VFR AND IFR USE ONLY".

Installation is in compliance with FAR 23.1301, 23.1309 and 23.1431.

Attachment: Operational Flight Check Data - Work Sheet.

ALL OPERATIONS

END

OCT 31 2011 *LP*

**ASO-FSDO-15**

Additional Sheets Are Attached



US Department  
of Transportation  
Federal Aviation  
Administration

**MAJOR REPAIR AND ALTERATION  
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**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 <b>N9224Y</b>	Serial No. <b>31P-8414012</b>	
	Make <b>PIPER</b>	Model <b>PA31P-350</b>	Series <b>Mojave</b>
2. Owner	Name (As shown on registration certificate) <b>Do Nascimento, Marcio Kleber</b>	Address (As shown on registration certificate)	
		Address <b>106-D Rue Leon Barbier</b>	City <b>Chatou</b> State <b>France</b>
	Zip <b>78400</b>	Country <b>France</b>	

**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 § 43.7.

Date: 8/12/11 Inspector: Tony Alfaya

Tony Alfaya  
Principal Avionics Inspector

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>		Manufacturer		

**6. Conformity Statement**

A. Agency's Name and Address		B. Kind of Agency		
Name <b>Sun Aviation Inc.</b>	Address <b>3102 Cherokee Drive</b>	City <b>Vero Beach</b>	State <b>FL</b>	Zip <b>32961</b> Country <b>USA</b>
		<input type="checkbox"/> U. S. Certificated Mechanic <input type="checkbox"/> Manufacturer <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> C. Certificate No. <input checked="" type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Certificated Maintenance Organization <input type="checkbox"/> ECWD470D		

**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	<input type="checkbox"/>	Signature/Date of Authorized Individual <i>Timothy E. Eunge</i>	<u>8-19-11</u>
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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	<input checked="" type="checkbox"/> Repair Station	Inspection Authorization	

Certificate or Designation No. <b>ECWD 470 D</b>	Signature/Date of Authorized Individual <i>Timothy E. Eunge</i>	<u>8-19-11</u>
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JUL 15 1998 OCT 02 1998



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  
*GC 21 901*

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 PIPER	Model PA31P-350
	Serial No. 31P-8414012	Nationality and Registration Mark N9224Y
2. Owner	Name (As shown on registration certificate) Eid-Co Construction	Address (As shown on registration certificate) 1701 32nd Avenue S Fargo ND 58103

**3. For FAA Use Only**

The alteration/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.

*9/14/98 John Klein*

Date	GL-FSD0-21			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 FARGO AERO TECH, INC. 1722 23RD AVENUE N FARGO ND 58102	B. Kind of Agency U.S. Certificated Mechanic Foreign Certificated Mechanic <input checked="" type="checkbox"/> Certificated Repair Station Manufacturer	C. Certificate No. PR5R129N
---	---	--------------------------------

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 10-2-98	Signature of Authorized Individual <i>Emay A. Babolian</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			

Date of Approval or Rejection 10-2-98	Certificate or Designation No. PR5R129N	Signature of Authorized Individual <i>Emay A. Babolian</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.

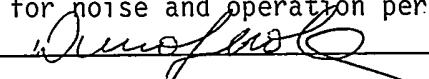
### 8. Description of Work Accomplished

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

1. Installed KLN89B GPS PN 066-01148-0101 (TSO C129 Class A1), KA92 PN071-01553-0200 (TSO C129), AIS 200-35 relay box, Eaton 582/584 switches/annunciators as follows: King PN 031-00785-0712 Nav/GPS switch/annunciator, PN 031-00785-0762 MSG/WPT annunciator & PN 031-00785-0767 GPS APR/ARM/ACTV switch per mfg installation manual PN006-10522-0001 Rev 1 dated June 1995
2. Locations - KLN89B installed in radio stack, KA92 installed on top fuselage station 121 switches and annunciators installed in pilots view on center pilots panel.
3. Installed per AC43.13-2A ch2 per 21, 22, 23, ch 3 par 39 (b) & AC20-138...
4. Done IAW FAR 23.1301 & 23.1309.
5. Weight & balance amended & logbook entry made.
6. Approved flight manual supplement provided and Operators Handbook supplied.
7. This is done as a follow on to STC SA00244WI-D.
8. Tested static system & integrated system per FAR 43 App E to 25000 ok.

Revise weight and balance

I hereby certify that the above mentioned equipment has been tested in accordance with available manufacturer's procedures and found to operate within set limits tested for noise and operation per part 23, and 1309 test ok.

Signed  for Way-Point Avionics, Inc.  
PS5D130N

Additional Sheets Are Attached

3 - AUG 1998

24 JUN

24 JUN 1998


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

 Form Approved  
OMB No. 2120-0020

For FAA Use Only

Office Identification  
*CC-21988*

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 PIPER	Model PA31R350
	Serial No. 31P-8414012	Nationality and Registration Mark N9224Y
2. Owner	Name (As shown on registration certificate) EID-CO CONSTRUCTION	Address (As shown on registration certificate) 1701 32ND AVENUE SOUTH FARGO ND 58103

## 3. For FAA Use Only

The alteration/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.

*7/30/98*

GL-FSDO-21

## 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.
FARGO AERO TECH, INC. 1722 23RD AVENUE N FARGO ND 58102	U S Certificated Mechanic Foreign Certificated Mechanic <input checked="" type="checkbox"/> Certificated Repair Station Manufacturer	PR5R129N

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	
7-30-98	<i>Enya A. Bobelis</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 <input checked="" type="checkbox"/>	Repair Station	Person Approved by Transport Canada Airworthiness Group	

Date of Approval or Rejection	Certificate or Designation No.	Signature of Authorized Individual
7-30-98	PR5R129N	<i>Enya A. Bobelis</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 sigtronics innercom model SPA-600TSO, S.N.1101386 in lower center dash position. Installed IAW installation and wiring provided with unit. Install head phone jacks in ash tray locations for seat #3, 4, 5, 6. Run multi-stran wiring in side walls as needed. #1, 2 seat mike jacks stay as original locations.

Installation accomplished IAW manufactures data and AC43.13-2A CHA 2, (A) 1-6, 22, 23, 25.

Revise weight and balance

I hereby certify that the above mentioned equipment has been tested in accordance with avialable manufactures procedures and found to operate within set limits tested for noise and operation per part 23. 1301, and 1309 test ok.

Signed Doug Tolles for Way-Point Avionics, Inc.  
PS5D130N

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

GL-21 168

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 PIPER	Model PA31P
	Serial No. 31P-8414012	Nationality and Registration Mark N92244
2. Owner	Name (As shown on registration certificate) EID-CO	Address (As shown on registration certificate) 1701 32 AV. S FARGO N.D. 58103

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 FARGO AERO TECH 1722 23RD AV. N. FARGO N.D. 58102		B. Kind of Agency U.S. Certificated Mechanic	C. Certificate No.
		Foreign Certificated Mechanic	PR5R129N
		X 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 12-31-99	Signature of Authorized Individual Emoy A. Balalon	
------------------	---	--

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 <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> 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 12-31-99	Certificate or Designation No. PR5R129N	Signature of Authorized Individual Emoy A. Balalon
---	--	---

## 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.)*

INSTALL J.P.I. ENGINE MONITOR SYSTEM  
P/N. 104590 - EOM 7606C, S.N. 2378,  
IAW STC SA2586NM, & DATA PROVIDE WITH  
INSTALLATION DATA PACKET DATED 6-17-99  
REVISE W&B DATA

END

Additional Sheets Are Attached

15 MAR 1998

23 NOV 1998



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

Form Approved  
 OMB No. 2120-0020

For FAA Use Only

Office Identification  
*GL-FSD-21*

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 PIPER	Model PA31P-350
	Serial No. 31P-8414012	Nationality and Registration Mark N9224Y
2. Owner	Name (As shown on registration certificate) EID-CO CONSTRUCTION	Address (As shown on registration certificate) 1701 32ND AVENUE SOUTH FARGO ND 58103
<p>The alteration/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.</p> <p><i>4/27/98</i> <i>John O. Klein</i>  <i>4/27/98</i> <i>John O. Klein</i>    Date GL-FSD-21</p>		

4. Unit Identification			5. Type	
Unit	Make	Model	Serial No.	Repair
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.	
FARGO AERO TECH, INC. 1722 23RD AVENUE N FARGO ND 58102		<input type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input checked="" type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer		PR5R129N	

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 <i>3-9-99</i>	Signature of Authorized Individual <i>Enya A. Baboleni</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	X Repair Station	Person Approved by Transport Canada Airworthiness Group	

Date of Approval or Rejection <i>3-9-99</i>	Certificate or Designation No. <i>925R129N</i>	Signature of Authorized Individual <i>Enya A. Baboleni</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.)

Reinstalled WX-900 stormslope that had been removed. Display mounted in dash, cable run down right side wall, antenna mounted in aft belly, all in previous locations. Install WX-900 display S.N. FNP06302162, WX-900 antenna S.N. FNA06302110. Complete system install IAW BFG stormslope series II weather mapping system, manual 78-8060-6104 (RevB) 4-12-97. All system checked IAW manual check out procedures. Other reference used AC43-13-1A, AC43.13-2A Cha 2, Cha 3, W&B, equipment list updated.

I hereby certify that the above mentioned equipment has been tested in accordance with available manufacturers procedures and found to operate within set limits tested for noise and operation per part 23. 1301, and 1309 test ok.

Signed David W. Cook for Way-Point Avionics, Inc.

PS5D130N

END

Additional Sheets Are Attached

FEB 12 1999

4 FEB 1999



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

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 violation (Section 901 of Federal Aviation Act of 1958).

1. Aircraft	Make Piper	Model PA31P-350
	Serial No. 31P-8414012	Nationality and Registration Mark N9224Y
2. Owner	Name (As shown on registration certificate) EID Co.	Address (As shown on registration certificate) 1701 32 Ave. S. Fargo ND 58103-5936
<p>The alteration/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.</p> <p><i>3/10/99</i> <i>John A. Kline</i> Date GL-FSDO-21</p>		
<p>3. For FAA Use Only</p>		

## 4. Unit Identification

## 5. Type

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

## 6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
Aircraft Services 3801 20th St. N Fargo, ND. 58102	<input type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input checked="" type="checkbox"/> Certified Repair Station <input type="checkbox"/> Manufacturer	AVRR287C

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	
<i>2-10-99</i>	<i>John A. Kline</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 <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> 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	
<i>2-10-99</i>		AVRR287C		<i>John A. Kline</i>	

000-31314

**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.)*

N9224Y      Piper      PA31P      S/N 31P-8414012

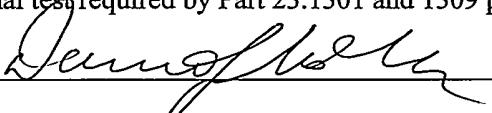
Removed Sigtronics intercom control previously installed per 337 dated 7-9-98 By Fargo Aero Tech.

Installed Gulfcoast GCA-600 intercom control all previously installed wiring reused.

Unit installed in same location. With no structural changes.

Provided equipment list update, weight and balance change negligible.

All wiring and functional test required by Part 23.1301 and 1309 performed by Waypoint Avionics  
CRS PS5D103N

  
\_\_\_\_\_  
END \_\_\_\_\_

Additional Sheets are Attached

JUL 15 1998



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

Form Approved  
OMB No. 2120-0020

For FAA Use Only

Office Identification

GL21 JMK

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 PIPER	Model PA31P-350
	Serial No. 31P-8414012	Nationality and Registration Mark N9224Y
2. Owner	Name (As shown on registration certificate) Eid-Co Construction	Address (As shown on registration certificate) 1701 32nd Avenue S Fargo ND 58103

## 3. For FAA Use Only

The alteration/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.

9/14/98 John L. Klein

Date

GL-FSDO-21

## 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.
FARGO AERO TECH, INC. 1722 23RD AVENUE N FARGO ND 58102	<input type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input checked="" type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	PR5R129N

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 10-2-98	Signature of Authorized Individual Emay A. Babolian		
-----------------	--	--	--

## 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 10-2-98	Certificate or Designation No. PR5R129N	Signature of Authorized Individual Emay A. Babolian
--	--	--

## 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 KLN89B GPS PN 066-01148-0101 (TSO C129 Class A1), KA92 PN071-01553-0200 (TSO C129), AIS 200-35 relay box, Eaton 582/584 switches/annunciators as follows: King PN 031-00785-0712 Nav/GPS switch/annunciator, PN 031-00785-0762 MSG/WPT annunciator & PN 031-00785-0767 GPS APR/ARM/ACTV switch per mfg installation manual PN006-10522-0001 Rev 1 dated June 1995
2. Locations - KLN89B installed in radio stack, KA92 installed on top fuselage station 121 switches and annunciators installed in pilots view on center pilots panel.
3. Installed per AC43.13-2A ch2 per 21, 22, 23, ch 3 par 39 (b) & AC20-138
4. Done IAW FAR 23.1301 & 23.1309.
5. Weight & balance amended & logbook entry made.
6. Approved flight manual supplement provided and Operators Handbook supplied.
7. This is done as a follow on to STC SA00244WI-D.
8. Tested static system & integrated system per FAR 43 App E to 25000 ok.

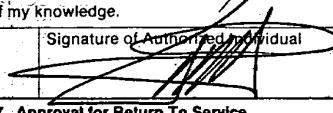
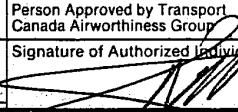
Revise weight and balance

I hereby certify that the above mentioned equipment has been tested in accordance with available manufacturers procedures and found to operate within set limits tested for noise and operation per part 23, and 1309 test ok.

Signed John J. Jones for Way-Point Avionics, Inc.

PS5D130N

Additional Sheets Are Attached

 US Department of Transportation Federal Aviation Administration		<b>MAJOR REPAIR AND ALTERATION</b> (Airframe, Powerplant, Propeller, or Appliance)		Form Approved OMB No. 2120-0020 <input checked="" type="checkbox"/> For FAA Use Only Office Identification <b>WPPS 200-7</b>	
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:	<b>PiPER</b> Model: <b>PA31P-350</b>			
	Serial No.:	<b>8414012</b> Nationality and Registration Mark <b>N 9224Y</b>			
2. Owner	Name (As shown on registration certificate)	<b>ARIZONA FLIGHT SCHOOL</b> Address (As shown on registration certificate) <b>6501 WILKINSON DR. PREScott, AZ 86301</b>			
	3. For FAA Use Only				
4. Unit Identification					
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in Item 1 above)			<input checked="" type="checkbox"/>	
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				
6. Conformity Statement					
A. Agency's Name and Address <b>ARIZONA FLIGHT SCHOOL 6501 WILKINSON DR. PREScott, AZ 86301</b>		B. Kind of Agency	C. Certificate No. <b>AFURO13K</b>		
		U.S. Certificated Mechanic <input checked="" type="checkbox"/> Foreign Certificated Mechanic <input checked="" type="checkbox"/> Certificated Repair Station <input checked="" type="checkbox"/> 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  <b>AFS A-10</b>				
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 <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit. Standards Inspector	Manufacturer	Inspection Authorization	Other (Specify)	
	FAA Designee	<input checked="" type="checkbox"/> Repair Station	Person Approved by Transport Canada Airworthiness Group		
Date of Approval or Rejection	Certificate or Designation No.	Signature of Authorized Individual	 <b>AFS A-10</b>		

**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 BRACKETT AIR FILTER ASSY  
P/N-BA3310, IAW STC-SA714L, sup. 1.  
ON BOTH ENGINES.

Additional Sheets Are Attached

FAA AIRCRAFT REGISTRY  
CAMERA NO. 3 DATE: 7-17-97

RECEIVED

DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

NOV 9 1984

Form Approved  
Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION

44-0-04  
FAT GADQ

MAJOR REPAIR AND ALTERATION  
(Airframe, Powerplant, Propeller, or Appliance)  
WP-FSDO-2 (SJC)

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	MODEL
	PIPER	MOJAVE PA31P-350
SERIAL NO.	31P-8414012	NATIONALITY AND REGISTRATION MARK USA N9224Y
2. OWNER	NAME (As shown on registration certificate) SYSTEMS RESEARCH CORPORATION	ADDRESS (As shown on registration certificate) 4535 W. Sahara Ave. Ste. 105-3B Las Vegas, NV 89102
3. FOR FAA USE ONLY		

4. UNIT IDENTIFICATION

UNIT	MAKE	MODEL	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 EXECUTIVE WINGS, INC. 4985 E. Anderson Ave. Fresno, CA 93727	B. KIND OF AGENCY		C. CERTIFICATE NO.
	U.S. CERTIFIED MECHANIC		CRS 404-20 Airframe Class III Radio Class I and II Limited: Dme, Transponder, Autopilot
	FOREIGN CERTIFIED MECHANIC		
	XX 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 NOVEMBER 06, 1984	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>John S. Stetland</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 ST. STANDARDS INSPECTOR FAA DESIGNEE XX	MANUFACTURER REPAIR STATION	INSPECTION AUTHORIZATION CANADIAN, DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	OTHER (Specify)
DATE OF APPROVAL OR REJECTION 11-06-84	CERTIFICATE OR DESIGNATION NO. 404-20	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>John S. Stetland</i>	

FAA Form 337 (7-67)

(8320)

**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 the following equipment:

1. Installed King KGR-356 Radar Graphics Unit.

The KGR-356 was installed in the center instrument panel.

All work was performed in accordance with AC43.13-1A Chapter 11; AC43.13-2A Chapters 1 and 2 and manufacturers installation manual.

An electrical load analysis was performed and it was determined that the maximum continuous electrical load does not exceed 80% of the combined rated alternator output.

New weight and balance data was computed and the results entered in the aircraft logbook..

NOTHING FOLLOWS-----

ADDITIONAL SHEETS ARE ATTACHED

FAA AIRCRAFT REGISTRY  
CAMERA NO. 3 DATE: 7-17-90

Form Approved  
Budget Bureau No. 04-R0058

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 N9224Y	2. AIRCRAFT BUILDER'S NAME (make) Piper	3. AIRCRAFT MODEL DESIGNATION PA-31P-350	4. YR. MFG. 1983	FAA CODING 7103111																																																																																																																																																																																																																																																								
		5. AIRCRAFT SERIAL NO. 31P-8414012	6. ENGINE BUILDER'S NAME (make) Lycoming	7. ENGINE MODEL DESIGNATION TIO-540-V2AD	8. NUMBER OF ENGINES TWO	9. PROPELLER BUILDER'S NAME (make) Hartzell	10. PROPELLER MODEL DESIGNATION HC-I3YR-2UF/FC7854K	11. AIRCRAFT IS: NEW <input checked="" type="checkbox"/> USED <input type="checkbox"/> IMPORT <input type="checkbox"/>																																																																																																																																																																																																																																																						
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FAA AIRCRAFT REGISTRY  
CAMERA NO. 3 DATE: 7-17-90

<b>A. MANUFACTURER</b> NAME _____ ADDRESS _____		
<b>B. PRODUCTION BASIS</b> (Check applicable item) <input checked="" type="checkbox"/> PRODUCTION CERTIFICATE (Give production certificate number) _____ <input type="checkbox"/> TYPE CERTIFICATE ONLY _____ <input type="checkbox"/> APPROVED PRODUCTION INSPECTION SYSTEM _____		
<b>C. GIVE QUANTITY OF CERTIFICATES REQUIRED FOR OPERATING NEEDS:</b> DATE OF APPLICATION _____ NAME AND TITLE (Print or type) _____ SIGNATURE _____		
<b>A. DESCRIPTION OF AIRCRAFT</b> REGISTERED OWNER _____ ADDRESS _____ BUILDER (Make) _____ MODEL _____ SERIAL NUMBER _____ REGISTRATION MARK _____		
<b>B. DESCRIPTION OF FLIGHT</b> FROM _____ TO _____ VIA _____ DEPARTURE DATE _____ DURATION _____		
<b>C. CREW REQUIRED TO OPERATE THE AIRCRAFT AND ITS EQUIPMENT</b> <input type="checkbox"/> PILOT <input type="checkbox"/> CO-PILOT <input type="checkbox"/> NAVIGATOR <input type="checkbox"/> OTHER (Specify) _____		
<b>D. THE AIRCRAFT DOES NOT MEET THE APPLICABLE AIRWORTHINESS REQUIREMENTS AS FOLLOWS:</b> _____		
<b>E. THE FOLLOWING RESTRICTIONS ARE CONSIDERED NECESSARY FOR SAFE OPERATION (Use attachment if necessary)</b> _____		
<b>F. CERTIFICATION</b> —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 _____
<b>VIII. AIRWORTHINESS (FAA use only)</b>	<input checked="" type="checkbox"/> A. Operating Limitations and Markings in Compliance with FAR-91.31 as Applicable <input checked="" type="checkbox"/> B. Current Operating Limitations Attached <input checked="" type="checkbox"/> C. Data, Drawings, Photographs, etc. (Attach when required) <input checked="" type="checkbox"/> D. Current Weight and Balance Information Available in Aircraft <input checked="" type="checkbox"/> E. Major Repair and Alteration, FAA 337 (Attach when required) <input checked="" type="checkbox"/> F. This Inspection Recorded in Aircraft Records	
	<input checked="" type="checkbox"/> G. Statement of Conformity, FAA Form 317 (Attach when required) <input checked="" type="checkbox"/> H. Foreign Airworthiness Certification for Import Aircraft (Attach when required)	
	<input checked="" type="checkbox"/> I. Previous Airworthiness Certificate Issued in Accordance with, FAR _____ CAR _____ (Original attached)	
	<input checked="" type="checkbox"/> J. Current Airworthiness Certificate Issued in Accordance with FAR 21.183(b) (Copy attached)	

FAA AIRCRAFT REGISTRY  
CAMERA NO. 3 DATE: 7-17-90

UNITED STATES OF AMERICA DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION STANDARD AIRWORTHINESS CERTIFICATE			
1. NATIONALITY AND REGISTRATION MARKS	2. MANUFACTURER AND MODEL	3. AIRCRAFT SERIAL NUMBER	4. CATEGORY
N9224Y	Piper PA-31P-350	31P-8414012	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 B 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 8-4-83	FAA REPRESENTATIVE Charles Hunter, Jr.	DESIGNATION NUMBER DMIR AEA-1536	
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

U.S. Government Printing Office - 170-875-380

FAA AIRCRAFT REGISTRY  
CAMERA NO. 3 DATE: 7-17-90



FAA AIRCRAFT REGISTRY  
CAMERA NO. 3 DATE: 7-17-90

Form Approved Budget  
Bureau No. 04-R0146

UNITED STATES OF AMERICA  
DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

STATEMENT OF CONFORMITY

SECTION I - AIRCRAFT

1. MAKE Piper	2. MODEL PA-31P-350
3. SERIAL NO. 31P-8414012	4. REGISTRATION NO. N9224Y

SECTION II - ENGINE

1. MAKE	2. MODEL
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3. SERIAL NO.	
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SECTION III - PROPELLER

1. MAKE	2. HUB MODEL
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2. BLADE MODEL	4. HUB SERIAL NO.
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5. BLADE SERIAL NOS.	
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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 8-4-83 (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 8-4-83 (Date).

Deviations:

SIGNATURE OF CERTIFIER Ralph L. Best <i>Ralph L. Best</i>	TITLE Director, Quality Assurance
ORGANIZATION Piper Aircraft Corporation	DATE 8-4-83

**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 186).

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.

MAY 13 2002

RECEIVED

Form Approved  
OMB No. 2120-0020

For FAA Use Only

Office Identification

GL-211109

MAJOR REPAIR AND ALTERATION  
(Airframe, Powerplant, Propeller, or Appliance)US Department  
of Transportation  
Federal Aviation  
Administration

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
	Piper	PA31P-350
	Serial No.	Nationality and Registration Mark
	31P-8414012	N 9224Y
2. Owner	Name (As shown on registration certificate)	Address (As shown on registration certificate)
	Eid-Co	1701 32nd Av S Fargo, ND 58102

## 3. For FAA Use Only

4. Unit Identification				5. Type	
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	~~~~~(As described in Item 1 above)~~~~~				
POWERPLANT	Lycoming	LT10-540-V2AD	L-2804-68A		X
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

## 6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
Fargo Aero Tech 1722 23rd Av N Fargo, ND 58102	<input type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input checked="" type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	PR5R129N

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		
4-29-2002	Enoy A. Babulani		

## 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	

Date of Approval or Rejection	Certificate or Designation No.	Signature of Authorized Individual
4-29-2002	PR5R129N	Enoy A. Babulani

## 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 6 Textron Lycoming fuel nozzles P/N LW18182 and installed General Aviation Modifications, Inc. turboGAMinjector Kit No. GLVT20 S/N 9175 STC No. SE09445SC per turboGAMinjector Installation Procedure No. IP-98-002 (Rev D), dated August 11, 1998. No change in weight and balance.

-----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

GL-21 154

**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
	Piper	PA31P-350
	Serial No.	Nationality and Registration Mark
	31P-8414012	N 9224Y
2. Owner	Name (As shown on registration certificate)	Address (As shown on registration certificate)
	Eid-Co	1701 32nd Av S Fargo, ND 58102

**3. For FAA Use Only**

4. Unit Identification				5. Type	
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	~~~~~(As described in Item 1 above)~~~~~				
POWERPLANT	Lycoming	TIO-540-V2AD	L-8460-61A		X
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

**6. Conformity Statement**

A. Agency's Name and Address  Fargo Aero Tech 1722 23rd Av N Fargo, ND 58102	B. Kind of Agency		C. Certificate No.  PR5R129N
	U.S. Certificated Mechanic		
	Foreign Certificated Mechanic		
	X 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		
4-29-02	Eny A. Babolian		

**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	
4-29-2002		PR5R129N	Eny A. Babolian	

## 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 6 Textron Lycoming fuel nozzles P/N LW18182 and installed General Aviation Modifications, Inc. turboGAMIjector Kit No. GLVT20 S/N 9174 STC No. SE09445SC per turboGAMIjector Installation Procedure, No. IP-98-002 (Rev D), dated August 11, 1998. No change in weight and balance.

----- END -----

Additional Sheets Are Attached