



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  
AGL-FSDO-19

*(RSS)*

**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 1958)

1. Aircraft	Make <b>BEECHCRAFT</b>	Model <b>B36TC</b>
	Serial No. <b>EA-347</b>	Nationality and Registration Mark <b>N6611E</b>
2. Owner	Name (As shown on registration certificate) <b>ROBERT A. ZARRACINA</b>	Address (As shown on registration certificate) <b>612 VALLEY VIEW RD. MOLINE, IL 61265</b>

### 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	CONTINENTAL	TSIO 520 UB3F	248953-R		X
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

### 6. Conformity Statement

<b>A. Agency's Name and Address</b>  TERRY KELLEY RR3 BOX 329 GALESBURG IL 61401	<b>B. Kind of Agency</b> <input checked="" type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	<b>C. Certificate No.</b>  2006170
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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 <b>9/24/98</b>	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	X	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection <b>9/24/98</b>		Certificate or Designation No. <b>2006170</b>	Signature of Authorized Individual  <b>TERRY D. KELLEY</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.)*

REMOVED SIX (6) TCM FUEL NOZZLES P/N 632748-17A AND INSTALLED GENERAL AVIATION  
MODIFICATIONS INC. TURBO GAMJECTORS KIT # GT17A S/N 4434 IAW STC SE 09289 SC  
PMA # PQ821SW PER TURBO GAMINJECTORS INSTALLATION PROCEDURE # IP-97-002  
(REV 002) DATED FEBRUARY 6,1997.

NO WEIGHT & BALANCE CHANGE

LOGBOOK ENTRY MADE TO SHOW INSTALLATION

\*\*\*\*\*End\*\*\*\*\*

Additional Sheets Are Attached



U.S. Department of Transportation  
Federal Aviation Administration

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

Form Approved  
OMB No. 2120-0020

For FAA Use Only

Office Identification

6619 *Dem*

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 1958)

1. Aircraft	Make BEECHCRAFT	Model B36TC
	Serial No. EA-347	Nationality and Registration Mark N6611E
2. Owner	Name (As shown on registration certificate) ROBERT A. ZARRACINA	Address (As shown on registration certificate) 612 VALLEY VIEW RD. MOLINE, IL 61265

**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  TERRY KELLEY RR3 BOX 329 GALESBURG, IL 61401	B. Kind of Agency	C. Certificate No.
	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	2006170
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input type="checkbox"/> Certificated Repair Station	
	<input 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 9/24/98	Signature of Authorized Individual <i>Terry Kelley</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	<input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 9/24/98	Certificate or Designation No. 2006170	Signature of Authorized Individual <i>Terry Kelley</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 JP INSTRUMENTS EGT/CHT EDM 700, S/N 9167 IAW STC SA 2586 NM AND INSTALLATION INSTRUCTIONS SUPPLIED BY THE MANF.

WEIGHT & BALANCE REVISED TO SHOW INSTALLATION.

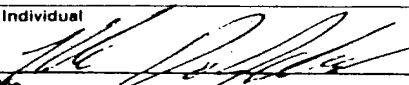
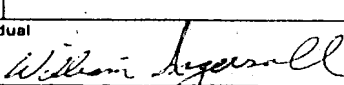
CONTINUOUS AIRWORTHINESS REQUIREMENTS ARE OUTLINED BY THE MANF.

LOGBOOK ENTRY MADE TO SHOW INSTALLATION.

\*\*\*\*\*End\*\*\*\*\*

Additional Sheets Are Attached

MAR 21 1994

1. Aircraft		Make	Model		
		Beechcraft	B-36TC		
2. Owner		Name (As shown on registration certificate)	Address (As shown on registration certificate)		
		Robert A. Zarracina	612 Valley View Dr Moline, IL 61265		
<b>3. For FAA Use Only</b>					
<b>4. Unit Identification</b>					
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	~~~~~ (As described in Item 1 above) ~~~~~				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				
<b>5. Type</b>					
<b>6. Conformity Statement</b>					
A. Agency's Name and Address		B. Kind of Agency		C. Certificate No.	
Elliott Flying Service Quad City Airport P. O. Box 100 Moline, IL 61265		<input type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input checked="" type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer		CGHR812C	
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 March 1994		Mark Jacobs 			
<b>7. Approval for Return To Service</b>					
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		
4 March 1994		CGHR812C	William Ingersoll 		

NOTICE

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

8. Description of Work Accomplished

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

Replaced induction air filter P/N 35-380035-7 with new Brakett Kit P/N BA-7210.  
Per STC-SA71GL. No change to weight and balance.

-END

Additional Sheets Are Attached

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				Form Approved Budget Bureau No. 04-R000.1	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				FOR FAA USE ONLY	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.				OFFICE IDENTIFICATION ACE-61	
1. AIRCRAFT	MAKE	Beechcraft	MODEL	B-36TC	
	SERIAL NO.	EA-347	NATIONALITY AND REGISTRATION MARK	N6611E	
2. OWNER	NAME (As shown on registration certificate)		ADDRESS (As shown on registration certificate)		
	Broeg & Associates, Inc.		1705 W. Washington, P. O. Box 70 Mt. Pleasant, Iowa 52641		
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.
Elliott Flying Service, Inc. 2800 McKinley Ave. Des Moines, Iowa 50321			U.S. CERTIFICATED MECHANIC		Radio Class I, II, III 4310
			FOREIGN CERTIFICATED MECHANIC		
			<input checked="" type="checkbox"/> 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		
January 10, 1989			<i>Haye Pinkenberg</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 PLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION		OTHER (Specify)
	FAA DESIGNEE	<input checked="" type="checkbox"/> REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION		CERTIFICATE OR DESIGNATION NO.	SIGNATURE OF AUTHORIZED INDIVIDUAL		
January 10, 1989		4310	<i>Haye Pinkenberg</i>		

**NOTICE**

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

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

Removed previously installed 3M/Ryan WX-10 Stormscope System. Installed 3M WX-1000 Stormscope Weather Avoidance System FAA TSO C110 in accordance with the manufacturer's installation manual. In addition, AC 43.13-2A was used to aid in determining acceptable methods of installing the components. Antenna mounting was determined using AC 43.13-2A, Chapter 3, Section 43. Processor mounting was determined using AC 43.13-2A, Chapter 2, Section 24. Indicator mounting was determined using AC 43.13-2A, Chapter 2, Sections 23 and 25. Electrical System load was determined to be within limits as per AC 43.13-1A, Chapter 11, Section 2, Paragraph 428. Installation of Stormscope electrical system was accomplished to acceptable methods contained in AC 43.13-2A, Chapter 2, Paragraph 27.

The Stormscope was tested and calibrated in accordance with manufacturer's specifications. No adverse effect on other aircraft systems was noted.

Weight and Balance was computed and Equipment List updated per today's date.

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-END-  
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ADDITIONAL SHEETS ARE ATTACHED



AAC-250

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

I. AIRCRAFT DESCRIPTION		APPLICATION FOR AIRWORTHINESS CERTIFICATE		INSTRUCTIONS — Print or type. Do not write in shaded areas; these are for FAA use only. Submit original only to an authorized FAA Representative. If additional space is required, use an attachment. For special flight permits complete Sections II and VI or VII as applicable.									
1. REGISTRATION MARK	N6611E	2. AIRCRAFT BUILDER'S NAME (Make)	Reach	3. AIRCRAFT MODEL DESIGNATION	B36TC								
5. AIRCRAFT SERIAL NO.	EA-347	6. ENGINE BUILDER'S NAME (Make)	Teledyne	7. ENGINE MODEL DESIGNATION	TS10-520-UB								
8. NUMBER OF ENGINES	One	9. PROPELLER BUILDER'S NAME (Make)	McCauley	10. PROPELLER MODEL DESIGNATION	3A32C-406								
				4. YR. MFR.	1151609								
				11. AIRCRAFT IS (Check if applicable)	17040								
				IMPORT									
APPLICATION IS HEREBY MADE FOR: (Check applicable items)													
<input checked="" type="checkbox"/> STANDARD AIRWORTHINESS CERTIFICATE (Indicate category) <input type="checkbox"/> NORMAL <input checked="" type="checkbox"/> UTILITY <input type="checkbox"/> ACROBATIC <input type="checkbox"/> TRANSPORT <input type="checkbox"/> GLIDER <input type="checkbox"/> BALLOON													
<input type="checkbox"/> SPECIAL AIRWORTHINESS CERTIFICATE (Check appropriate items)													
<input type="checkbox"/> LIMITED													
<input type="checkbox"/> PROVISIONAL (Indicate class)													
<input type="checkbox"/> RESTRICTED (Indicate operation(s) to be conducted)													
<input type="checkbox"/> EXPERIMENTAL (Indicate operation(s) to be conducted)													
<input type="checkbox"/> SPECIAL FLIGHT PERMIT (Indicate operation to be conducted; then complete Section VI or VII as applicable on reverse side)													
<input type="checkbox"/> CLASS I <input type="checkbox"/> CLASS II <input type="checkbox"/> AGRICULTURE AND PEST CONTROL <input type="checkbox"/> FOREST (Wildlife conservation) <input type="checkbox"/> CARRIAGE OF CARGO <input type="checkbox"/> RESEARCH AND DEVELOPMENT <input type="checkbox"/> RACING <input type="checkbox"/> TO SHOW COMPLIANCE WITH FAR <input type="checkbox"/> FERRY FLIGHT FOR REPAIRS, ALTERATIONS, MAINTENANCE OR STORAGE <input type="checkbox"/> EVACUATE FROM AREA OF IMPENDING DANGER <input type="checkbox"/> OPERATION IN EXCESS OF MAXIMUM CERTIFICATED TAKE-OFF WEIGHT <input type="checkbox"/> DELIVERING OR EXPORT <input type="checkbox"/> CUSTOMER DEMONSTRATION FLIGHTS													
<input type="checkbox"/> MULTIPLE AIRWORTHINESS CERTIFICATE (Check ABOVE "Restricted Operation" and "Standard" or "Limited," as applicable)													
A. REGISTERED OWNER (As shown on certificate of aircraft registration) <table border="1"> <tr> <td>NAME</td> <td>ADDRESS</td> </tr> <tr> <td>Broeg &amp; Associates, Inc.</td> <td>811 E. Washington, Box 70, Mt. Pleasant, IA</td> </tr> </table> IF DEALER, CHECK HERE <input type="checkbox"/>						NAME	ADDRESS	Broeg & Associates, Inc.	811 E. Washington, Box 70, Mt. Pleasant, IA				
NAME	ADDRESS												
Broeg & Associates, Inc.	811 E. Washington, Box 70, Mt. Pleasant, IA												
B. AIRCRAFT CERTIFICATION BASIS (Check applicable blocks and complete items as indicated) <table border="1"> <tr> <td>AIRCRAFT SPECIFICATION OR TYPE CERTIFICATE DATA SHEET (Give No and Revision No.)</td> <td>AIRCORTHNESS DIRECTIVES (Check if all applicable AD's complied with and give latest AD No.)</td> </tr> <tr> <td>X 3A15</td> <td>X 86-13-04R3</td> </tr> <tr> <td>AIRCRAFT LISTING (Give page number(s))</td> <td>SUPPLEMENTAL TYPE CERTIFICATE (List number of each STC incorporated)</td> </tr> <tr> <td></td> <td>SA2239CE</td> </tr> </table>						AIRCRAFT SPECIFICATION OR TYPE CERTIFICATE DATA SHEET (Give No and Revision No.)	AIRCORTHNESS DIRECTIVES (Check if all applicable AD's complied with and give latest AD No.)	X 3A15	X 86-13-04R3	AIRCRAFT LISTING (Give page number(s))	SUPPLEMENTAL TYPE CERTIFICATE (List number of each STC incorporated)		SA2239CE
AIRCRAFT SPECIFICATION OR TYPE CERTIFICATE DATA SHEET (Give No and Revision No.)	AIRCORTHNESS DIRECTIVES (Check if all applicable AD's complied with and give latest AD No.)												
X 3A15	X 86-13-04R3												
AIRCRAFT LISTING (Give page number(s))	SUPPLEMENTAL TYPE CERTIFICATE (List number of each STC incorporated)												
	SA2239CE												
C. AIRCRAFT OPERATION AND MAINTENANCE RECORDS <table border="1"> <tr> <td>CHECK IF RECORDS IN COMPLIANCE WITH FAR 91.173</td> <td>TOTAL AIRFRAME HOURS</td> <td>EXPERIMENTAL ONLY (Enter hours flown since last certificate issued or renewed)</td> </tr> <tr> <td>X</td> <td>1463</td> <td></td> </tr> </table>						CHECK IF RECORDS IN COMPLIANCE WITH FAR 91.173	TOTAL AIRFRAME HOURS	EXPERIMENTAL ONLY (Enter hours flown since last certificate issued or renewed)	X	1463			
CHECK IF RECORDS IN COMPLIANCE WITH FAR 91.173	TOTAL AIRFRAME HOURS	EXPERIMENTAL ONLY (Enter hours flown since last certificate issued or renewed)											
X	1463												
D. CERTIFICATION — I hereby certify that I am the registered owner (or his agent) of the aircraft described above; that the aircraft is registered with the Federal Aviation Administration in accordance with Section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations; and that the aircraft has been inspected and is airworthy and eligible for the airworthiness certificate requested.													
DATE OF APPLICATION		NAME AND TITLE (Print or type)		SIGNATURE									
November 5, 1987		Jerry L. Jordan, Agent		<i>Jerry L. Jordan</i>									
A. THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY: (Complete this section only if FAR 21.183(a) applies)													
FAR PART 121 OR 127 CERTIFICATE HOLDER (Give Certificate No.)		CERTIFICATED MECHANIC (Give Certificate No.)		CERTIFICATED REPAIR STATION (Give Certificate No.)									
AIRCRAFT MANUFACTURER (Give name of firm)													
DATE		TITLE		SIGNATURE									
(Check ALL applicable blocks in items A and B)													
A. I find that the aircraft described in Section I or VII meets requirements for:													
<input type="checkbox"/> AMENDMENT OR MODIFICATION OF CURRENT AIRWORTHINESS CERTIFICATE													
B. Inspection for a special flight permit under Section VII was conducted by:													
DATE		DISTRICT OFFICE		DESIGNEE'S SIGNATURE AND NO.									
11/5/87		MKE-MIDWEST		<i>Gerald W. Pierce</i>									
				FAA INSPECTOR'S SIGNATURE									
				<i>Gerald W. Pierce</i>									

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



**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 N6611E	2. AIRCRAFT BUILDER'S NAME (Make) Beech	3. AIRCRAFT MODEL DESIGNATION B36TC	FAA CODING 1151609	
	4. AIRCRAFT SERIAL NO EA347	5. ENGINE BUILDER'S NAME (Make) Teledyne Continental	6. ENGINE MODEL DESIGNATION TSIO 520-4B		17040
	7. NUMBER OF ENGINES 1	8. PROPELLER BUILDER'S NAME (Make) McCauley	9. PROPELLER MODEL DESIGNATION 3A32C-406	10. AIRCRAFT IS (Check if applicable) <input type="checkbox"/> EXPORT <input type="checkbox"/> IMPORT	

APPLICATION IS HEREBY MADE FOR: (Check applicable items)

<input type="checkbox"/> A	<input type="checkbox"/> 1	STANDARD AIRWORTHINESS CERTIFICATE (Indicate category)	<input type="checkbox"/> NORMAL	<input type="checkbox"/> UTILITY	<input type="checkbox"/> ACROBATIC	<input type="checkbox"/> TRANSPORT	<input type="checkbox"/> GLIDER	<input type="checkbox"/> BALLOON
<input type="checkbox"/> B		SPECIAL AIRWORTHINESS CERTIFICATE (Check appropriate items)						
<input type="checkbox"/> 2		LIMITED						
<input type="checkbox"/> 3		PROVISIONAL (Indicate class)	<input type="checkbox"/> 1	CLASS I				
<input type="checkbox"/> 4		RESTRICTED (Indicate operation(s) to be conducted)	<input type="checkbox"/> 2	CLASS II				
<input type="checkbox"/> 5		EXPERIMENTAL (Indicate operation(s) to be conducted)	<input type="checkbox"/> 1	AGRICULTURE AND PEST CONTROL	<input type="checkbox"/> 2	AERIAL SURVEYING	<input type="checkbox"/> 3	AERIAL ADVERTISING
<input type="checkbox"/> 6			<input type="checkbox"/> 2	FOREST (Wildlife conservation)	<input type="checkbox"/> 3	PATROLLING	<input type="checkbox"/> 4	WEATHER CONTROL
<input type="checkbox"/> 7		SPECIAL FLIGHT PERMIT (Indicate operation to be conducted, then complete Section VI or VII as applicable on reverse side)	<input type="checkbox"/> 3	CARRIAGE OF CARGO	<input type="checkbox"/> 4	OTHER (Specify)		
<input type="checkbox"/> 8			<input type="checkbox"/> 4	RESEARCH AND DEVELOPMENT	<input type="checkbox"/> 5	AMATEUR BUILT	<input type="checkbox"/> 6	EXHIBITION
<input type="checkbox"/> 9			<input type="checkbox"/> 5	RACING	<input type="checkbox"/> 6	CREW TRAINING	<input type="checkbox"/> 7	MKT SURVEY
<input type="checkbox"/> 10			<input checked="" type="checkbox"/> X	TO SHOW COMPLIANCE WITH FAR				
<input type="checkbox"/> 11			<input type="checkbox"/> 1	FERRY FLIGHT FOR REPAIRS, ALTERATIONS, MAINTENANCE OR STORAGE				
<input type="checkbox"/> 12			<input type="checkbox"/> 2	EVACUATE FROM AREA OF IMPENDING DANGER				
<input type="checkbox"/> 13			<input type="checkbox"/> 3	OPERATION IN EXCESS OF MAXIMUM CERTIFICATED TAKE-OFF WEIGHT				
<input type="checkbox"/> 14			<input type="checkbox"/> 4	DELIVERING OR EXPORT	<input type="checkbox"/> 5	PRODUCTION FLIGHT TESTING		
<input type="checkbox"/> 15			<input type="checkbox"/> 6	CUSTOMER DEMONSTRATION FLIGHTS				

C.  MULTIPLE AIRWORTHINESS CERTIFICATE (Check ABOVE Restricted Operation and Standard or Limited as applicable)

A. REGISTERED OWNER (As shown on certificate of aircraft registration)

NAME Broeg & Associates Inc.	ADDRESS 811 E. Washington, Mt. Pleasant, Iowa 52641
IF DEALER, CHECK HERE <input type="checkbox"/>	

B. AIRCRAFT CERTIFICATION BASIS (Check applicable blocks and complete items as indicated)

<input checked="" type="checkbox"/> X	AIRCRAFT SPECIFICATION OR TYPE CERTIFICATE DATA SHEET (Give No and Revision No) 3A15	<input checked="" type="checkbox"/> X	AIRCRAFT LISTING (Give page number(s))	<input type="checkbox"/>	AIRWORTHINESS DIRECTIVES (Check if all applicable AD's complied with and give latest AD No) 86-13-04R3
<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	SUPPLEMENTAL TYPE CERTIFICATE (List number of each STC incorporated)

C. AIRCRAFT OPERATION AND MAINTENANCE RECORDS

<input checked="" type="checkbox"/> X	CHECK IF RECORDS IN COMPLIANCE WITH FAR 91.173	TOTAL AIRFRAME HOURS 1456.44	<input type="checkbox"/>	EXPERIMENTAL ONLY (Enter hours flown since last certificate issued or renewed)
---------------------------------------	--	---------------------------------	--------------------------	--

D. CERTIFICATION — I hereby certify that I am the registered owner (or his agent) of the aircraft described above, that the aircraft is registered with the Federal Aviation Administration in accordance with Section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations, and that the aircraft has been inspected and is airworthy and eligible for the airworthiness certificate requested.

DATE OF APPLICATION: 10-29-87

NAME AND TITLE (Print or type): Larry Broeg, President

SIGNATURE: *Larry Broeg*

A. THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY: (Complete this section only if FAR 21.183(d) applies)

<input type="checkbox"/>	FAR PART 121 OR 127 CERTIFICATE HOLDER (Give Certificate No.)	<input type="checkbox"/>	CERTIFICATED MECHANIC (Give Certificate No.)	<input type="checkbox"/>	CERTIFICATED REPAIR STATION (Give Certificate No.)
<input type="checkbox"/>	AIRCRAFT MANUFACTURER (Give name of firm)				

DATE: \_\_\_\_\_ TITLE: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_

(Check ALL applicable blocks in items A and B)

A. I find that the aircraft described in Section I or VII meets requirements for

B. Inspection for a special flight permit under Section VII was conducted by

<input checked="" type="checkbox"/>	THE CERTIFICATE REQUESTED	<input type="checkbox"/>	AMENDMENT OR MODIFICATION OF CURRENT AIRWORTHINESS CERTIFICATE
<input type="checkbox"/>	FAA INSPECTOR	<input type="checkbox"/>	FAA DESIGNEE
<input type="checkbox"/>	CERTIFICATE HOLDER UNDER	<input type="checkbox"/>	FAR 65
<input type="checkbox"/>		<input type="checkbox"/>	FAR 121, 127 or 135
<input type="checkbox"/>		<input type="checkbox"/>	FAR 145

DATE: 11-3-87

DISTRICT OFFICE: MRC-H10V-CC

DESIGNEE'S SIGNATURE AND NO: \_\_\_\_\_

FAA INSPECTOR'S SIGNATURE: *Joseph C. Bonk*  
JOSEPH E BONK

VI. PRODUCTION FLIGHT TESTING	<b>A. MANUFACTURER</b>		
	NAME		ADDRESS
	<b>B. PRODUCTION BASIS (Check applicable item)</b>		
	<input 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
VII. SPECIAL FLIGHT PERMIT PURPOSES OTHER THAN PRODUCTION FLIGHT TEST	<b>A. DESCRIPTION OF AIRCRAFT</b>		
	REGISTERED OWNER		ADDRESS
	BUILDER (Make)		MODEL
	SERIAL NUMBER		REGISTRATION MARK
	<b>B. DESCRIPTION OF FLIGHT</b> CUSTOMER DEMONSTRATION FLIGHTS <input type="checkbox"/> (Check if applicable)		
	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	
VIII. AIRWORTHINESS DOCUMENTATION (FAA use only)	<input checked="" type="checkbox"/> A. Operating Limitations and Markings in Compliance with FAR 91.31 as Applicable	<input type="checkbox"/> G. Statement of Conformity, FAA Form 8130-R (Attach when required)	
	<input checked="" type="checkbox"/> B. Current Operating Limitations Attached	<input type="checkbox"/> H. Foreign Airworthiness Certification for Import Aircraft (Attach when required)	
	<input checked="" type="checkbox"/> C. Data Drawings, Photographs, etc (Attach when required)	<input type="checkbox"/> I. Previous Airworthiness Certificate Issued in Accordance with	
	<input checked="" type="checkbox"/> D. Current Weight and Balance Information Available in Aircraft	<input checked="" type="checkbox"/> FAR 21.183 (a) CAR _____ (Original Attached)	
	<input checked="" type="checkbox"/> E. Major Repair and Alteration FAA Form 337 (Attach when required)	<input checked="" type="checkbox"/> J. Current Airworthiness Certificate Issued in Accordance with	
	<input checked="" type="checkbox"/> F. This Inspection Recorded in Aircraft Records	<input checked="" type="checkbox"/> FAR 21.191(b) _____ (Copy attached)	

UNITED STATES OF AMERICA DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION SPECIAL AIRWORTHINESS CERTIFICATE	
A	CATEGORY/DESIGNATION <b>EXPERIMENTAL</b>
	PURPOSE <b>TO SHOW COMPLIANCE WITH FAR</b>
B	MANUFACTURER NAME <b>N/A</b>
	ADDRESS <b>N/A</b>
C	FLIGHT FROM <b>N/A</b>
	TO <b>N/A</b>
D	N- <b>6611E</b>
	BUILDER <b>BEECH</b>
	DATE OF ISSUANCE <b>NOVEMBER 3, 1987</b>
E	OPERATING LIMITATIONS DATED <b>11/3/87</b>
	SIGNATURE OF FAA REPRESENTATIVE <i>Joseph E. Bonk</i> <b>JOSEPH E. BONK</b>
SERIAL NO. <b>11/5/87</b>	
MODE <b>11/5/87</b>	
EXPIRY <b>11/3/88</b>	
ARE PART OF THIS CERTIFICATE.	
DESIGNATION OR OFFICE NO. <b>MKC-MIDO-CE</b>	

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

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

OPERATING LIMITATIONS

Builder: BEECH Serial No.: EA-347  
Model: B36TC Reg. No.: N6611E

These limitations are a part of Special Airworthiness Certificate, "EXPERIMENTAL  
CATEGORY \_\_\_\_\_," dated November 3, 1987,  
issued to Flight Test Aircraft - Installation of ice protection system

1. No person may operate this aircraft for other than the purpose(s) of flight testing.  
Show Compliance with FAR \_\_\_\_\_ to accomplish the test outlined in  
applicant's request \_\_\_\_\_ program letter, dated 10-26-87  
describing compliance with FAR 21.193(d) and made available to the pilot in the aircraft.  
Additionally, this aircraft shall be operated in accordance with applicable air traffic  
and general operating rules of FAR 91, and all additional limitations herein prescribed  
under the provisions of FAR 91.42(e).

2. All flights shall be conducted within the geographical area described as  
follows: 150 nautical mile radius of Lawrence, Kansas

3. No operations, including takeoffs and landings, shall be conducted over densely  
populated areas or in congested airways, except those takeoffs and landings authorized  
as follows: active runways and airports

4. Unless appropriately equipped for night and/or instrument flight in accordance  
with FAR 91.33, this aircraft must be operated Day VFR only copy

5. No person may be carried in the aircraft during flight unless that person is a  
required flight crewmember and/or person(s) required to record flight test data that  
cannot be practicably recorded by a required flight crewmember.

6. This aircraft shall contain the placards, listings, and instrument markings  
required by FAR 91.31(e) for operation, including special placard(s) if applicable  
and/or Flight Manual Supplement if new supplements are applicable

7. This aircraft is prohibited from acrobatic flight; that is, an intentional  
maneuver involving an abrupt change in the aircraft's attitude, an abnormal attitude, or  
abnormal acceleration not necessary for normal flight.

8. If aircraft, engine, or propeller operating limitations are exceeded, an  
appropriate entry will be made in the historical records.

9. Any major change to this aircraft, as defined by FAR 21.93, invalidates the  
special airworthiness certificate issued for this aircraft.

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

11. The person operating this aircraft shall advise each person carried of the  
experimental nature of this aircraft.

12. The aircraft shall bear the word "EXPERIMENTAL" near each entrance to the cabin  
or cockpit in accordance with FAR 45.23.

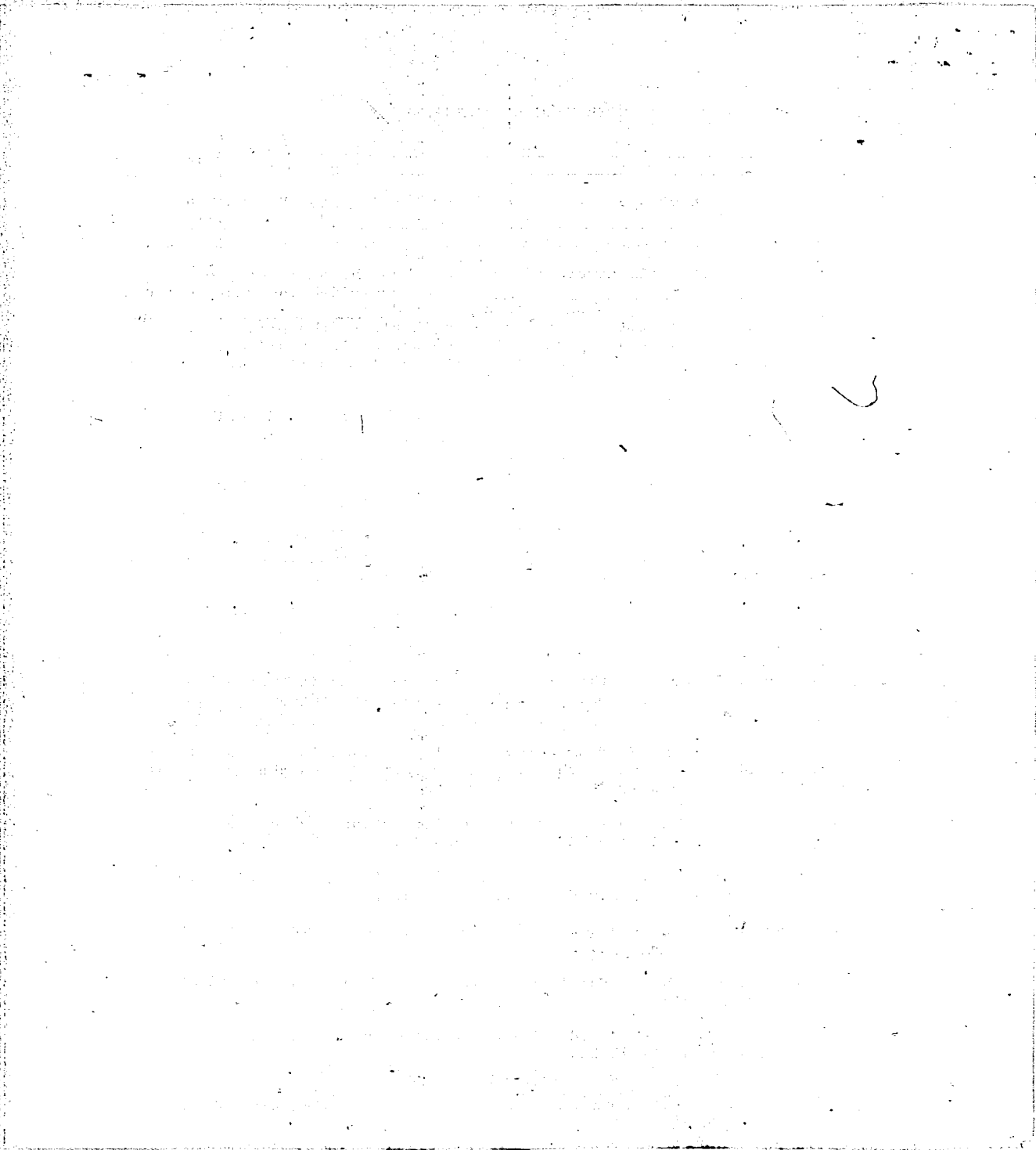
November 3, 1987  
Date of Issue

Joseph E. Dow  
FAA Representative

MKC-NIDO-GE  
Designation or Office No.

FAA AIRCRAFT REGISTRY

CAMERA NO. 3N DATE: 2-13-90





**KAC KOHLMAN AVIATION CORPORATION**

October 26, 1987

REC'D 10/30/87		
K. C. MIDO	ACT	INF
G. P.		
N. C.		
J. B.		
H. B.		

Mr. Gary Pierce  
Federal Aviation Administration  
Manufacturing Inspection District Office  
Downtown Airport  
250 Richards Road  
Kansas City, Missouri 64116

Dear Mr. Pierce:

Enclosed is an application for an Experimental Airworthiness Certificate for a Beech B36TC (Bonanza) airplane. Kohlman Aviation Corporation is in the process of amending STC #SA2239CE to include the B36TC aircraft. This particular STC was granted March 19, 1987.

The prototype installation will soon be ready for initial flight testing. We are requesting an operating radius of 150 nm from Lawrence, Kansas for our flight test requirements.

The installed system is expected to have no effect on the aerodynamic performance of the airplane or on the operation of the systems. This prototype system shares approximately 95% commonality with the components of STC #SA2239CE.

Thank you for your attention to this matter.

Sincerely,

*David L. Kohlman*  
David L. Kohlman  
President

DLK/keh

Enclosure

FAA AIRCRAFT REGISTRY

CAMERA NO. 3N DATE: 2-13-90

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				Form Approved Budget Bureau No. 04-R060.1	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				FOR FAA USE ONLY	
				OFFICE IDENTIFICATION	
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	Beechcraft	MODEL	B36TC	
	SERIAL NO.	EA-347	NATIONALITY AND REGISTRATION MARK	N6611E	
2. OWNER	NAME (As shown on registration certificate) Broeg & Associates, Inc.		ADDRESS (As shown on registration certificate) 811 E. Washington, Box 70 Mt. Pleasant, IA 52641		
	3. FOR FAA USE ONLY				
4. UNIT IDENTIFICATION					
UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
				REPAIR	ALTERATION
AIRFRAME	***** (As described in item 1 above) *****				X
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS		B. KIND OF AGENCY		C. CERTIFICATE NO.	
Muncie Aviation Company P.O. Box 1169, Muncie Airport Muncie, Indiana 47305		U.S. CERTIFICATED MECHANIC		RS201	
		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 November 4, 1987		SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Rick Frederickson</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 FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION	OTHER (Specify)	
	FAA DESIGNEE	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION 11/4/87	CERTIFICATE OR DESIGNATION NO. RS201	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Rick Frederickson</i>			

### NOTICE

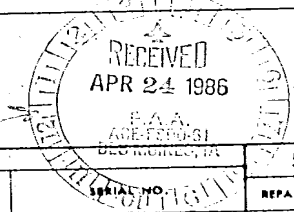
*Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.*

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 T.K.S. aircraft ice protection system per T.K.S. drawing No. 4500-92DL, Revision 10 dated July 21, 1987. Attached aircraft flight manual supplement revised November 3, 1987 and made appropriate weight and balance changes to aircraft flight manual.

-END-

ADDITIONAL SHEETS ARE ATTACHED

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		Form Approved Budget Bureau No. 04-R060.1	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)		FOR FAA USE ONLY	
		OFFICE IDENTIFICATION <b>ACE-FSD0-81</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.			
1. AIRCRAFT	MAKE	Beechcraft	MODEL B-36TC
	SERIAL NO.	EA-347	NATIONALITY AND REGISTRATION MARK N6611E
2. OWNER	NAME (As shown on registration certificate)		ADDRESS (As shown on registration certificate)
	Brong & Associates, Inc.		811 E. Washington, P.O. Box 70 Mt. Pleasant, Iowa 52641
3. FOR FAA USE ONLY			
			
4. UNIT IDENTIFICATION			5. TYPE
UNIT	MAKE	MODEL	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.
Elliott Flying Service, Inc. Drawer "D" South Des Moines Station Des Moines, Iowa 50319		<input type="checkbox"/> U.S. CERTIFICATED MECHANIC	4310
		<input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC	
		<input checked="" type="checkbox"/> CERTIFICATED REPAIR STATION	
		<input 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		
April 23, 1986	<i>Gary L. Pinkenberg</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 FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION
	FAA DESIGNEE	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT
DATE OF APPROVAL OR REJECTION	CERTIFICATE OR DESIGNATION NO.	SIGNATURE OF AUTHORIZED INDIVIDUAL	
April 23, 1986	4310	<i>Gary L. Pinkenberg</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.)

This ARNAV Systems, Inc. model AVA 1000A Loran C Navigation system previously certified for IFR Enroute use per 337 dated 10-5-84, has had the NAV Management and Data Base option added to the System. This addition reverts the certification to VFR only status within the limitations of the Flight Manual Supplement.

1. The System consists of the following:

- A. AVA 1000 Panel Unit, T80-C60a.
- B. AVA 1000 Antenna Pre Amp.
- C. ARNAV Remote Data Base.
- D. Loran C Antenna.
- E. Annunciator Assembly.
- F. Interfaced with a King KFC 200 Autopilot / Flight Director System, specifically a KI 525A HSI, FAA T80 C6c, and a KC 295 Autopilot Computer, BAA T80 C9c and C52a.

2. Weight & Balance computed and Pilot's Flight Manual updated.

3. The installation complies with the provisions of AC 90.45A, Appendix A, Paragraph 2C and was ground checked in accordance with Paragraph 3C-1 and was found to operate properly and safely.

Placard placed in the aircraft stating that "ARNAV Loran C approved for VFR use only". (Placard to be removed upon issuance of IFR certification.)

-----END-----

ADDITIONAL SHEETS ARE ATTACHED

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				Form Approved Budget Bureau No. 04-R060.1	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				FOR FAA USE ONLY	
				OFFICE IDENTIFICATION ACE-FSDO-61	
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	Beechcraft		MODEL	B36-TC
	SERIAL NO.	BA-347		NATIONALITY AND REGISTRATION MARK	N6611E
2. OWNER	NAME (As shown on registration certificate)			ADDRESS (As shown on registration certificate)	
	Broeg & Associates, Inc.			1705 W. Washington, P.O. Box 70 Mt. Pleasant, Iowa 52641	
3. FOR FAA USE ONLY					
RECEIVED FEB 6 1987 ACE-FSDO-61 DES MOINES, IOWA					
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.
Elliott Flying Service, Inc. P.O. Box 35276 Des Moines, Iowa 50315			U.S. CERTIFICATED MECHANIC		4310
			FOREIGN CERTIFICATED MECHANIC		
			<input checked="" type="checkbox"/> 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		
February 5, 1987			<i>Gayle Rinkenberg</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 P.T. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION		OTHER (Specify)
	FAA DESIGNEE	<input checked="" type="checkbox"/> REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION		CERTIFICATE OR DESIGNATION NO.		SIGNATURE OF AUTHORIZED INDIVIDUAL	
February 5, 1987		4310		<i>Gayle Rinkenberg</i>	

**NOTICE**

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

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

Removed NARCO ELT 10 Emergency Locator Transmitter. Installed ARNAV ELS 10, Emergency Locator Transmitter (AF), FAA TSO C91a. Installed ELT in accordance with acceptable methods contained in AC 43.13-2A, Chapter 2, Section 24. Installed ARNAV ELT Antenna per AC 43.13-2A, Chapter 3, Sections 36 and 37. Installed ELT to be used with a previously installed ARNAV AVA 1000/R40 Loran (VFR ONLY) and with an ARNAV RDB (Remote Data Base) P/N 453-0120-A. Wired System in accordance with manufacturer's instructions. Tested ELS 10 and LORAN per manufacturer's instructions. Revised Weight and Balance and updated Equipment List.

-----END-----

ADDITIONAL SHEETS ARE ATTACHED

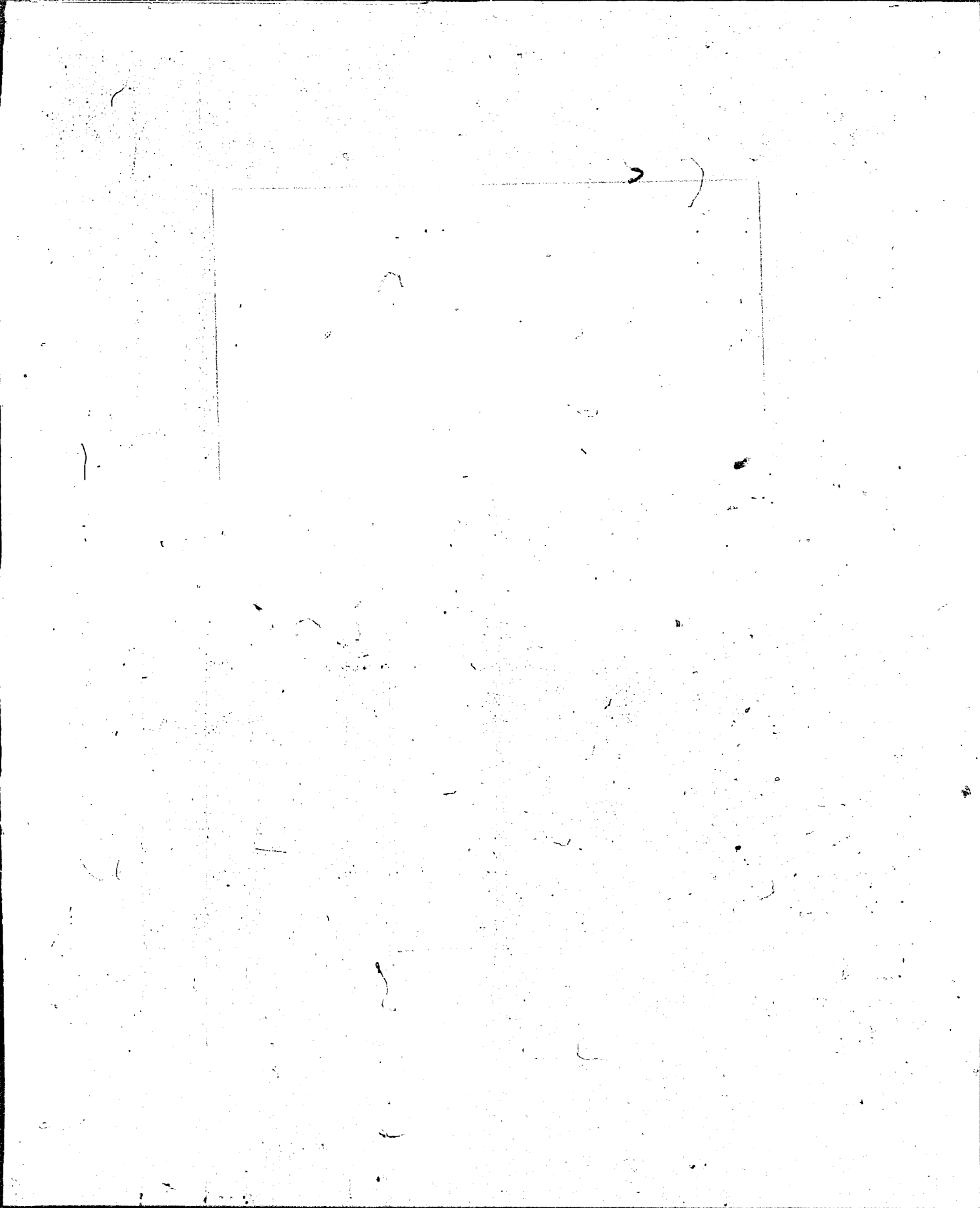


UNITED STATES OF AMERICA  
DEPARTMENT OF TRANSPORTATION—FEDERAL AVIATION ADMINISTRATION  
**STANDARD AIRWORTHINESS CERTIFICATE**

1 NATIONALITY AND REGISTRATION MARKS	2 MANUFACTURER AND MODEL	3 AIRCRAFT SERIAL NUMBER	4 CATEGORY
N6611E	BEECH AIRCRAFT COMP. H36TC	EA-347	UTILITY
5 AUTHORITY AND BASIS FOR ISSUANCE This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness codes as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein. Exceptions <b>NONE</b> <i>COPY</i>			
6 TERMS AND CONDITIONS Unless sooner surrendered, suspended, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventive 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 11-5-87 (Amend 3-24-83)	7 FAA AUTHORITY <i>Gerald W. Pierce</i> GERALD W. PIERCE		DESIGNATION NUMBER PKC-MIDO-CE

FAA AIRCRAFT REGISTRY

CAMERA NO. 3N DATE: 2-13-90



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 N6611E	2. AIRCRAFT BUILDER'S NAME (make) BEECH AIRCRAFT CORP.	3. AIRCRAFT MODEL DESIGNATION B36TC	4. YR. MFG. 1983	FAA CODING 1121609 170410	
	5. AIRCRAFT SERIAL NO. EA-347	6. ENGINE BUILDER'S NAME (make) Continental	7. ENGINE MODEL DESIGNATION TS10-520-UB	11. AIRCRAFT IS NEW <input type="checkbox"/> USED <input type="checkbox"/> IMPORT <input type="checkbox"/>		
	8. NUMBER OF ENGINES 1	9. PROPELLER BUILDER'S NAME (make) McCaulley	10. PROPELLER MODEL DESIGNATION 3A32C406			
APPLICATION IS HEREBY MADE FOR: (Check applicable items)						
II. CERTIFICATION REQUESTED	A. <input type="checkbox"/> STANDARD AIRWORTHINESS CERT. (Indicate category)		NORMAL <input checked="" type="checkbox"/> UTILITY <input type="checkbox"/> ACROBATIC <input type="checkbox"/> TRANSPORT <input type="checkbox"/> GLIDER <input type="checkbox"/> BALLOON <input type="checkbox"/>			
	B. SPECIAL AIRWORTHINESS CERTIFICATE (Check appropriate items)					
	2. LIMITED					
	5. PROVISIONAL (Indicate class)		1. CLASS I 2. CLASS II			
	3. RESTRICTED (Indicate operation(s) to be conducted)		1. AGRICULTURE & PEST CONTROL 2 2. AERIAL SURVEYING 3 4. FOREST (Wild life conservation) 5 5. PATROLLING 6 0. OTHER (Specify)			
	4. EXPERIMENTAL (Indicate operation(s) to be conducted)		1. RESEARCH AND DEVELOPMENT 2 4. RACING 5 0. TO SHOW COMPLIANCE WITH FAR			
	8. SPECIAL FLIGHT PERMIT (Indicate operation to be conducted then complete Section VI or VII as applicable on reverse side)		1. FERRY FLIGHT FOR REPAIRS, ALTERATIONS, MAINTENANCE OR STORAGE 2. EVACUATE FROM AREA OF IMPELNDING DANGER 3. OPERATION IN EXCESS OF MAX. CERTIFICATED TAKE-OFF WEIGHT 4. DELIVERING OR EXPORT 5. PRODUCTION FLIGHT TESTING			
	C. <input type="checkbox"/> MULTIPLE AIRWORTHINESS CERTIFICATE (Check appropriate Restricted-Operation and Standard or Limited as applicable above)					
	A. REGISTERED OWNER (As shown on Certificate of Aircraft Registration) IF DEALER, CHECK HERE <input checked="" type="checkbox"/>					
	NAME BEECH AIRCRAFT CORPORATION			ADDRESS 9709 East Central Wichita, Kansas 67201		
B. AIRCRAFT CERTIFICATION BASIS (Check applicable blocks and complete items as indicated)						
<input checked="" type="checkbox"/> AIRCRAFT SPECIFICATION OR TYPE CERTIFICATION DATA SHEET (Give No. and Revision No.) 3A15, Rev. 68			<input checked="" type="checkbox"/> AIRWORTHINESS DIRECTIVES (Check if all applicable AD's complied with and give latest AD No.) 83-04			
<input type="checkbox"/> AIRCRAFT LISTING (Give page No.) N/A			<input checked="" type="checkbox"/> SUPPLEMENTAL TYPE CERTIFICATE (List number of each STC incorporated) SA1564CE-D			
C. AIRCRAFT OPERATION AND MAINTENANCE RECORDS						
<input checked="" type="checkbox"/> CHECK IF RECORDS IN COMPLIANCE WITH FAR 91.173		TOTAL AIRFRAME HOURS—Enter for each aircraft only 4:10		<input type="checkbox"/> EXPERIMENTAL ONLY—Enter hours flown since last certificate issued or renewed N/A		
D. CERTIFICATION—I hereby certify that I am the owner (or his agent) of the aircraft described above; that the aircraft is registered with the Federal Aviation Administration in accordance with Section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations; and that the aircraft has been inspected and is airworthy and eligible for the airworthiness certificate requested.						
DATE OF APPLICATION 3-24-83		NAME AND TITLE (Print or type) W. W. Lautenschlager - Foreman Flight Inspection		SIGNATURE <i>W. W. Lautenschlager</i>		
IV. INSPECTION AGENCY VERIFICATION						
A. THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY: (Complete this section only if FAR 21.183 (A) applies)						
2. FAR PART 121 OR 127 CERTIFICATE HOLDER (Give Certificate No.)		3. CERTIFICATED MECHANIC (Give Certificate No.)		6. CERTIFICATED REPAIR STATION (Give Certificate No.)		
5. AIRCRAFT MANUFACTURER (Give Name of Firm)						
DATE		TITLE		SIGNATURE		
V. FAA REPRESENTATIVE CERTIFICATION						
(Check ALL applicable blocks) I find that the aircraft described in Section I or VII meets the requirements for: <input checked="" type="checkbox"/> The certification requested, or <input type="checkbox"/> Amendment or modification of its current airworthiness certificate. Inspection for a special flight permit under Section VII was conducted by: <input type="checkbox"/> FAA Inspector; certificate holder under <input type="checkbox"/> FAR 65, <input type="checkbox"/> FAR 121 or 127, or <input type="checkbox"/> FAR 145.						
DATE 3-24-83		DISTRICT OFFICE WICHITA MIDO		DESIGNER'S SIGNATURE AND NO. <i>W. W. Lautenschlager</i> 4 W. W. Lautenschlager, DOA, PC#8		
				FAA INSPECTOR'S SIGNATURE 1		

VI. PRODUCTION FLIGHT TESTING	A. MANUFACTURER			
	NAME	ADDRESS		
	B. PRODUCTION BASIS <i>(Check applicable item)</i>			
	<input type="checkbox"/> PRODUCTION CERTIFICATE <i>(Give production certificate number)</i> <input type="checkbox"/> TYPE CERTIFICATE ONLY <input type="checkbox"/> APPROVED PRODUCTION INSPECTION SYSTEM			
C. GIVE QUANTITY OF CERTIFICATES REQUIRED FOR OPERATING NEEDS:				
DATE OF APPLICATION	NAME AND TITLE <i>(Print or type)</i>	SIGNATURE		
VII. SPECIAL FLIGHT PERMIT PURPOSES OTHER THAN PRODUCTION FLIGHT TEST	A. DESCRIPTION OF AIRCRAFT			
	REGISTERED OWNER	ADDRESS		
	BUILDER <i>(Make)</i>	MODEL		
	SERIAL NUMBER	REGISTRATION MARK		
	B. DESCRIPTION OF FLIGHT			
	FROM	TO		
	VIA	DEPARTURE DATE	DURATION	
	C. CREW REQUIRED TO OPERATE THE AIRCRAFT AND ITS EQUIPMENT			
	<input type="checkbox"/> PILOT	<input type="checkbox"/> CO-PILOT	<input type="checkbox"/> NAVIGATOR	<input type="checkbox"/> OTHER <i>(Specify)</i>
	D. THE AIRCRAFT DOES NOT MEET THE APPLICABLE AIRWORTHINESS REQUIREMENTS AS FOLLOWS:			
E. THE FOLLOWING RESTRICTIONS ARE CONSIDERED NECESSARY FOR SAFE OPERATION <i>(Use attachment if necessary)</i>				
F. CERTIFICATION—I hereby certify that I am the registered owner (or his agent) of the aircraft described above; that the aircraft is registered with the Federal Aviation Administration in accordance with Section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations; and that the aircraft has been inspected and is airworthy for the flight described.				
DATE	NAME AND TITLE <i>(Print or type)</i>	SIGNATURE		
VIII. AIRWORTHINESS DOCUMENTATION <small>(FAA use only)</small>	<input checked="" type="checkbox"/> A. Operating Limitations and Markings in Compliance with FAR 91.31 as Applicable	G. Statement of Conformity, FAA Form 317 <i>(Attach when required)</i>		
	<input type="checkbox"/> B. Current Operating Limitations <i>(if needed)</i>	H. Foreign Airworthiness Certification for Import Aircraft <i>(Attach when required)</i>		
	<input type="checkbox"/> C. Data, Drawings, Photographs, etc. <i>(Attach when required)</i>	I. Previous Airworthiness Certificate Issued in Accordance with FAR _____ CAR _____ <i>(Original attached)</i>		
	<input checked="" type="checkbox"/> D. Current Weight and Balance Information Available in Aircraft	J. Current Airworthiness Certificate Issued in Accordance with FAR 21.183 (a) per 21.273 <i>(Copy attached)</i>		
	<input type="checkbox"/> E. Major Repair and Alteration, FAA 337 <i>(Attach when required)</i>			
	<input checked="" type="checkbox"/> F. This Inspection Recorded in Aircraft Records			

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

1. NATIONALITY AND REGISTRATION MARKS <b>N6611E</b>	2. MANUFACTURER AND MODEL <b>BEECH AIRCRAFT CORPORATION B36TC</b>	3. AIRCRAFT SERIAL NUMBER <b>BA-347</b>	4. CATEGORY <b>UTILITY</b>
--	--	--	-------------------------------

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 it has been inspected and found to conform to the type certificate therefor, is in compliance with the applicable Federal Aviation Regulations, and has been shown to meet the requirements of the applicable Federal Aviation Regulations, except as noted herein.

**NONE**

6. TERMS AND CONDITIONS:  
 Unless otherwise specified, this airworthiness certificate is valid as long as the maintenance, inspection, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.

DATE OF ISSUANCE <b>March 24, 1983</b>	DESIGNATION NUMBER <b>DOA, PC#8</b>
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**W. W. Lautenschlager**

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 (7-82) PREVIOUS EDITIONS OBSOLETE

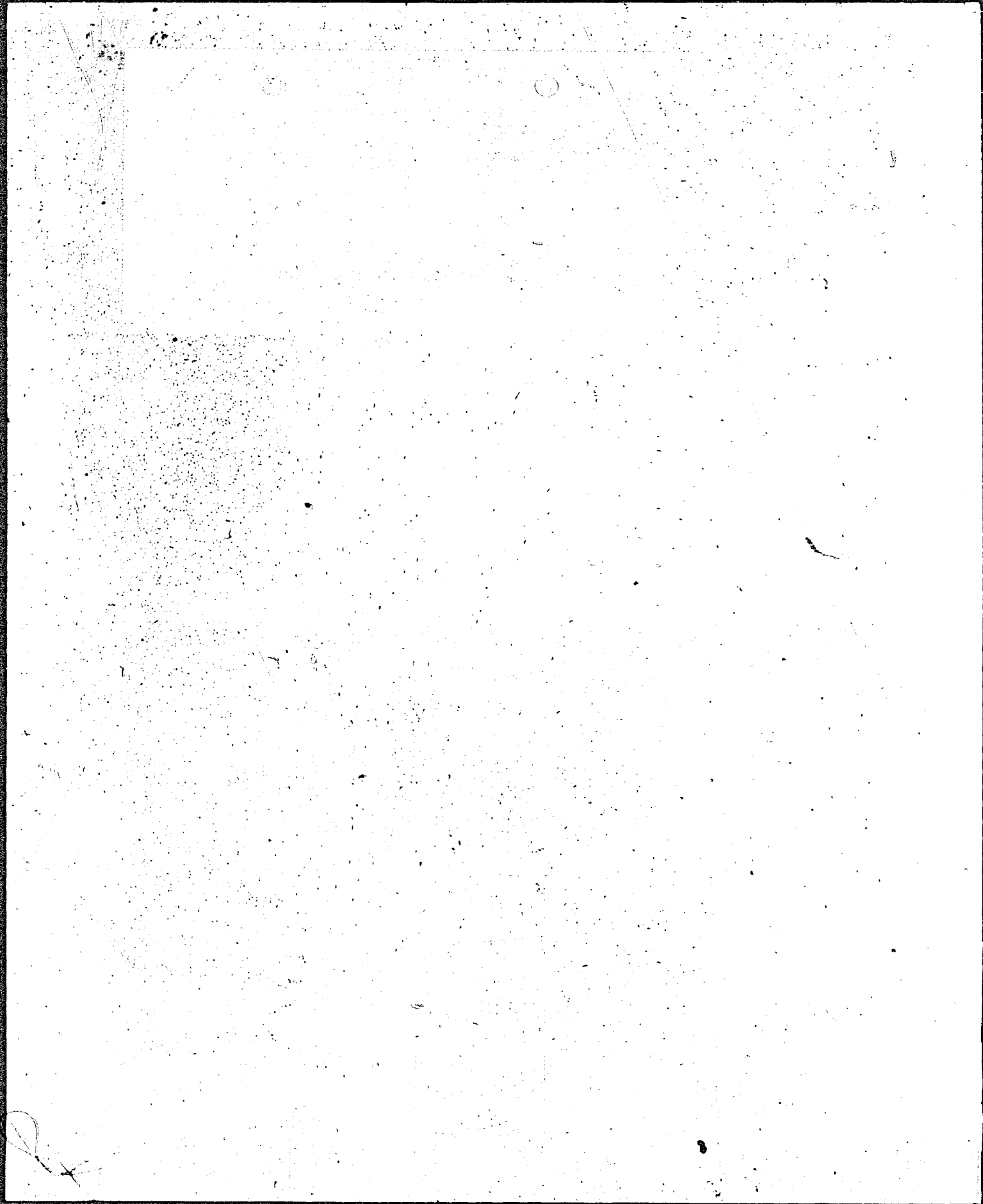
FAA AIRCRAFT REGISTRY

CAMERA NO.

3N

DATE:

4 - 9 - 86



U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION <b>MAJOR REPAIR AND ALTERATION</b> (Airframe, Powerplant, Propeller, or Appliance)				Form Approved Budget Bureau No. 04-R060.1 FOR FAA USE ONLY OFFICE IDENTIFICATION <b>ACE-FSD0-3</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.					
1. AIRCRAFT	MAKE <u>Beechcraft</u>	MODEL <u>B-36TC</u>		NATIONALITY AND REGISTRATION MARK <u>N6611Z</u>	
	SERIAL NO. <u>EA-347</u>				
2. OWNER	NAME (As shown on registration certificate) <u>Greg &amp; Associates, Inc.</u>		ADDRESS (As shown on registration certificate) <u>311 E. Washington P.O. Box 70 Mt. Pleasant, Iowa 52641</u>		
	3. FOR FAA USE ONLY				
The data/alteration identified herein complies with the applicable airworthiness requirements and is approved only for the above described aircraft, subject to conformity inspection by a person authorized by FAR 43.7 (a)					
OCT 05 1984 FAA Inspector <u>ACE-FSD0-3</u>					
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.
Elliott Flying Service, Inc. Drawer "D" South Des Moines Station Des Moines, Iowa 50315			U.S. CERTIFICATED MECHANIC		4310
			FOREIGN CERTIFICATED MECHANIC		
			<input checked="" type="checkbox"/> 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 <u>September 25, 1984</u>			SIGNATURE OF AUTHORIZED INDIVIDUAL <u>Ray L. Rinkenberger</u>		
7. APPROVAL FOR RETURN TO SERVICE					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION	OTHER (Specify)	
	FAA DESIGNEE	<input checked="" type="checkbox"/> REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION <u>OCT 05 1984</u>		CERTIFICATE OR DESIGNATION NO. <u>4310</u>	SIGNATURE OF AUTHORIZED INDIVIDUAL <u>Ray L. Rinkenberger</u>		

**NOTICE**

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

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

This ARNAV Systems, Inc. model AVA 1000A Loran C Navigation system previously certified for VFR use only, has been reevaluated per Advisory Circular 90-45A. It is now certified for use under IFR Flight Rules, Enroute mode only, and within the limitations established in the Flight Manual supplement.

1. System consists of the following:

- A. AVA 1000 Panel Unit, TSO-C60a
- B. AVA 1000 Antenna Free Asp.
- C. Loran C Antenna
- D. Annunciator Assembly
- E. Interfaced with a King KFC 200 Autopilot/ Flight Director System, specifically a KI 525A KSI, FAA TSO C6c, and a KC 295 Autopilot Computer, FAA TSO C9c and C52a

2. Weight & Balance computed and Pilot's Flight Manual updated.

3. The installation complies with the provisions of AC 90.45A, Appendix A, Paragraph 2G and was ground checked in accordance with Paragraph 3C-1 and was found to operate properly and safely.

4. A flight test was conducted and the errors observed were well within the error tables in AC 90-45A, App.A. This data has been recorded and a copy of it is attached to this Form 337.

END

ADDITIONAL SHEETS ARE ATTACHED



DEPARTMENT OF TRANSPORTATION  
 FEDERAL AVIATION ADMINISTRATION

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

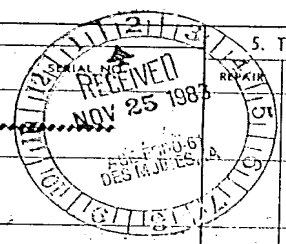
Form Approved  
 Budget Bureau No. 04-R060.1  
 FOR FAA USE ONLY  
 OFFICE IDENTIFICATION  
**ACE-FSD0-01**

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.

<b>1. AIRCRAFT</b>	MAKE <b>Beechcraft</b> SERIAL NO. <b>EA-347</b>	MODEL <b>B-36TC</b> NATIONALITY AND REGISTRATION MARK <b>N6611E</b>
<b>2. OWNER</b>	NAME (As shown on registration certificate) <b>Broeg &amp; Associates, Inc.</b>	ADDRESS (As shown on registration certificate) <b>811 E. Washington P.O. Box 70                  Mt. Pleasant, Iowa 52641</b>

3. FOR FAA USE ONLY

4. UNIT IDENTIFICATION				5. TYPE	
UNIT	MAKE	MODEL	RANK	ALTERATION	
AIRFRAME	***** (As described in item 1 above) *****				X
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				



6. CONFORMITY STATEMENT

A. AGENCY'S NAME AND ADDRESS <b>Elliott Flying Service, Inc.                  Drawer "D", South Des Moines Station                  Des Moines, Iowa 50315</b>	B. KIND OF AGENCY <input type="checkbox"/> U.S. CERTIFICATED MECHANIC <input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC <input checked="" type="checkbox"/> CERTIFICATED REPAIR STATION <input type="checkbox"/> MANUFACTURER	C. CERTIFICATE NO. <p style="text-align: center; font-size: 1.2em;"><b>4310</b></p>
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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 <p style="text-align: center;"><b>November 21, 1983</b></p>	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	MANUFACTURER	INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNEE	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	

DATE OF APPROVAL OR REJECTION <p style="text-align: center;"><b>November 21, 1983</b></p>	CERTIFICATE OR DESIGNATION NO. <p style="text-align: center;"><b>4310</b></p>	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.

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

ARNAV Systems, Inc., model AVA 1000 Loran C Navigation System installed per AC 43.13.1A, Chapter 1 and AC 43.13.2A, Chapters 1 & 2.

1. System consists of the following:

A. AVA 1000 Panel Unit, TSO-C60a

B. AVA 1000 Antenna Pre Amp.

C. Loran C Antenna

D. Annunciator Assembly

E. Interfaced with a King KFC 200 Autopilot/Flight Director System, specifically a KI 525A HSI, FAA-TSO C6c, and a KC 295 Autopilot Computer, FAA TSO C9c and C52a

2. Weight & Balance computed and Pilot's Flight Manual updated this date.

3. The installation complies with the provisions of AC 90.45A, Appendix A, Paragraph 2C and was ground checked in accordance with Paragraph 3C-1 and was found to operate properly and safely.

Placard placed in the aircraft stating that IFR flight is not to be predicated upon use of the Loran C. (Placard to be removed upon issuance of IFR certification.)

-----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  
**CE88**

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 <b>Beechcraft</b>	MODEL <b>B36TC</b>
	SERIAL NO. <b>FA-347</b>	NATIONALITY AND REGISTRATION MARK <b>N6611E</b>
2. OWNER	NAME (As shown on registration certificate) <b>Broeg &amp; Associates, Inc.</b>	ADDRESS (As shown on registration certificate) <b>811 E. Washington; P.O. Box 70 Mt. Pleasant, Iowa 52641</b>

3. FOR FAA USE ONLY

**RECEIVED**

SEP 19 1983

ACE - FSDO - 65

LINCOLN, NE

UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
				REPAIR	ALTERATION
AIRFRAME	***** (As described in item 1 above) *****				X
POWERPLANT				<b>RECEIVED</b> SEP 26 1983	
PROPELLER					
APPLIANCE	TYPE <b>StormScope</b> MANUFACTURER <b>3M Ryan</b>	<b>WX-10</b>	<b>OD 830080854</b>	ACE - FSDO - 65 LINCOLN, NE	

6. CONFORMITY STATEMENT

A. AGENCY'S NAME AND ADDRESS <b>Elliott Beechcraft of Omaha, Inc. P.O. Box 19064, Eppley Airfield Omaha, Nebraska 68119</b>	B. KIND OF AGENCY <input type="checkbox"/> U.S. CERTIFICATED MECHANIC <input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC <input checked="" type="checkbox"/> CERTIFICATED REPAIR STATION MANUFACTURER	C. CERTIFICATE NO. <b>CRS 3029</b>
--	---	---------------------------------------

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 <b>September 14, 1983</b>	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Roger D. Ruchnick</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 FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNEE	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	
DATE OF APPROVAL OR REJECTION <b>9-14-83</b>	CERTIFICATE OR DESIGNATION NO. <b>CRS-3029</b>	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Roger D. Ruchnick</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 Ryan 3M StormScope weather detection unit this date. Component S/NS are as follows: Processor S/N OP83080854, Display - OD830080854, and Antenna, A-83080954. This installation meets the applicable requirements of A.C.43.131A Chps. 11 and 16 and A.C. 43.13.2 Chps. 1,2, and 3. Current revisions are contained in aircraft weight and balance report.

-----End-----

ADDITIONAL SHEETS ARE ATTACHED