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-FSD0-19

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INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C.1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act 1958) Model **BEECHCRAFT B36TC** 1. Aircraft Serial No. Nationality and Registration Mark EA-347 N6611E Name (As shown on registration certifcate) Address (As shown on registration certificate) ROBERT A. ZARRACINA 612 VALLEY VIEW RD. 2. Owner **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) ------**TSIO 520 UB3F** CONTINENTAL 248953-R POWERPLANT X PROPELLER Type APPLIANCE Manufacturer 6. Conformity Statement A. Agency's Name and Address C. Certificate No. B. Kind of Agency X U.S. Certificated Mechanic 2006170 **TERRY KELLEY** Foreign Certificated Mechanic **RR3 BOX 329** Certificated Repair Station **GALESBURG IL 61401** 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 9/24/98 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 XAPPROVED REJECTED Other (Specify) FAA Flt. Standards Manufacturer Inspection Authorization Inspector BY Person Approved by Transport Repair Station FAA Designee Canada Airworthiness Group Signature of Authorized Individual Certificate or Date of Approval or Rejection Designation No. 9/24/98 2006170

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.

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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.

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

Form Approved OMB No. 2120-0020 For FAA Use Only Orlegidentification ESDO

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subse

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William Ingersoll

FAA Form 337 (12-88)

4 March 1994

CGHR812C

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.

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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

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,

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.

ADDITIONAL SHEETS ARE ATTACHED

FAA AC 72-4906

WU.S. GOVERNMENT PRINTING OF FICE: 1986-659-121/40260

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	+	F. CERTIFICATION — I hereby certify that I am the registered owner (or his agent) of the aircr accordance with Section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation.	aft described above, that the sircraft is registered with the Federal Aviation Administration in section Regulations; and that the sircraft has been inspected and is sirworthy for the flight
it.	- 1 4	accordance with Section 501 of the Federal Aviation Act of 1956, and applicable described.	
	F	DATE NAME AND TITLE (Print or type)	SIGNATURE
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	+	Compliance with FAR	G. Statement of Conformity, FAA Form 8130-9 (Attach when required)
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CUMENTATION		C. Data, Drawings, Photographs, etc. (Attach when required)	I. Previous Airworthiness Cyrtificate lassed in Accordance Brith Y - FAR 21-19-1001 CAR (Original Atlached)
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A FORM 8130-7 (10/82)

SEE REVERSE SIDE

	5 Level Attitution Act of 1958 for
Α	This arrworthiness certificate is issued under the authority of the Federal Aviation Act of 1958 (-) and the Federal Aviation Regulations (FAR).
В	This anworthmess certificate authorizes the manufacturer named on the reverse side to conduct production light tests, and only production light, lests, of aircraft registered in his name. No person may conduct production light tests under this certificate: (1) Carrying persons or person may conduct production light tests under this certificate: (1) Carrying persons of properly for compensation or hire; and/or (2) Carrying persons not essential to the purpose of
c	This airworthiness certificate authorizes the flight specified on the reverse side for the purpose shown in Block A.
D	This nirworthiness 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 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 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.
\	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:	BEEGH			Serial No.:	T.A., 2.6.7
Model:	B36TC			Reg. No.:	EA-347 N6611E
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FAA AIRCRAFT REGISTRY CAMERA NO. 3/ DATE: 2-13-90

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KOHLMAN AVIATION CORPORATION

October 26, 1987

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

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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

President

DLK/keh

Enclosure

Perry Street . Lawrence, Kansas

(913) 843-4098

Telex 46-9644

FAA AIRCRAFT REGISTRY CAMERA NO. 3/ DATE: 2-13-90

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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

FAA AC 71-4006

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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.

- The System consists of the following:
 - AVA 1000 Panel Unit, T80-C60a. AVA 1000 Antenna Pre Amp.

 - ARNAV Remote Data Base. C.
 - Loran C Antenna. D.
 - Annunciator Assembly. K.
 - 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.
- Weight & Balance computed and Pilot's Flight Manual updated.
- 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.)

ADDITIONAL SHEETS ARE ATTACHED

U.S. GPO 1981 - 775-332-47

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D. I cert attach and t	ify that the repairments hereto have hat the information	ir and e beer on fur	or alteration mo made in accord nished herein is	ade to ance w true at	the unit(s) ide- ith the requirent id correct to the	nents of Part 4 best of my k	3 of the U.S. I	ederal Avi	ation Reg	ulatio
DATE			· i		SIGNATURE OF	AUTHORIZED	INDIVIDUAL			
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Febru	ary 5, 1987			APPPO	VAL FOR RETURN	TO SERVICE	vio ge			
Pursuant	to the authority injectator of the F	given	persons specified	below	the unit identi	6ed in item 4	was inspected i	n the man	ner prescr	ibed l
the Adm	PAA PLT. STANDARDS		MANUFACTURER		INSPECTION AUTHO		OTHER (Specify)			
BY	PAA DESIGNEE	x	REPAIR STATION	1	CANADIAN DEPAR OF TRANSPORT IN OF AIRCRAFT	TMENT ISPECTOR	1			_
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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 aircraft record. 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 ELT 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 to be used with a previously installed ARNAV AVA 1000/R40 Loran (VFR ONLY) and the arrangement approach 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.

ADDITIONAL SHEETS ARE ATTACHED

1. U.S. GPO 1981 - 775-332.47

REGISTR	ALITY AND IATION MARKS		ATRCRAF		3 AIRCR	AFT SERIAL ER	4 CATEGORY
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FAA AIRCRAFT REGISTRY CAMERA NO. 3 DATE: 2-13

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CAMERA NO.	3N	DATE:	4	-	9	-	86

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. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION APPLICATION FOR AIRWORTHINESS CERTIFICATE I. REGISTRATION MARK 2. AIRCRAFT BUILDER'S NAME (make) 3, AIRCRAFY MODEL DESIGNATION 4, YR. MEG. N6611E BEECH AIRCRAFT CORP. **B36TC** 1983 AIRCRAFT DESCRIPTE 5. AIRCRAFT SERIAL NO. 6. ENGINE BUILDER'S NAME (Make) 7. ENGINE MODEL DESIGNATION EA-347 Continental . TS10-520-UB B. NUMBER OF ENGINES PROPELLER BUILDER'S NAME (make) IO. PROFELLER MODEL DESIGNATION II. AIRCRAFT IS McCauley 3A32C406 - USED IMPORT APPLICATION IS HEREBY MADE FOR (Check applicable demay A 1 X STANDARD AIRWORTHINESS CERT. (Indicate category) NORMAL X UTILITY ACROBATIC TRANSPORT GLIDER BALLOON SPECIAL AIRWORTHINESS CERTIFICATE (Check appropriate items) CLASS I 5 PROVISIONAL (Indicate class) 2 CLASS II 1 AGRICULTURE & PEST CONTROL RESTRICTED (Indicate operation(s) to be conducted) 3 IOREST (Wild life conservation) 4 5 PATROLLING CERTIFICATION 0 OTHER (Specify) 1 RESTARCH AND DEVELOPMENT AMATEUR BUILT KHIRITION EXPERMENTAL (Indicate operation(s) to be conducted) 4 RACING 5 CREW TRAINING MKT, SURVEY 0 TO SHOW COMPLIANCE WITH FAR FLERRY FLIGHT FOR REPAIRS, ALTERATIONS, MAINTENANCE OR STORAGE SPECIAL FLIGHT PERMIT / Indicate = Section VI or VII as applicable on reverse side) EVACUATE FROM AREA OF IMPENDING DANGER OPERATION IN EXCESS OF MAX. CERTIFICATED TAKE-OFF WEIGHT 3 DELIVERING OR EXPORT 5 PRODUCTION FLIGHT TESTING MULTIPLE AIRWORTHINESS CERTIFICATE (Check appropriate Restricted Offeration and Standard or Limited as applicable above, A. REGISTERED OWNER (As shown on Certificate of Aircraft Registration) IF DEALER, CHECK HERE 9709 East Central ADDRESS BEECH AIRCRAFT CORPORATION Wichita, Kansas 67201 B. AIRCRAFT CERTIFICATION BASIS (Check applicable blocks and complete items as indicated) AIRCRAFT SPECIFICATION OR TYPE CERTIFICATION DATA SHEET / Gue No ARWORTHINESS DIRECTIVES (Check if all applicable AD's complied with and give latest AD No.)

83-04 x 3A15, Rev. 68 83-04 SUPPLEMENTAL TYPE CERTIFICATE (List number of each STC incorporated) SA1564CE-D C. AIRCRAFT OPERATION AND MAINTENANCE RECORDS OWNER'S CHECK IF RECORDS IN COMPLIANCE WITH FAR 91.173 TOTAL AIRTRAME HOURS - Euter for unt seconstituals EXPERIMENTAL ONLY—Enter hours flown time has certificate time. 4:10 N/A D. CERTIFICATION—I hereby certify that I am the owner (or his agent) of the airc aft bescribed above; that the aircraft is registered with 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 1787)

W. W. Lautenschlager - Foreman

3-24-83

A. THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY: (Complete this section only if PAR 21.183 (Vapplies) FAR PART 121 OR 127 CERTIFICATE HOLDER (GILL Certificate No.) CERTIFICATED REPAIR STATION (Gire Certificate 2 ó AIRCRAFT MANUFACTURER (Gire Name of Firm) 5 TITLE (Check ALL applicable blocks) I find that the aircroft described in Section I or VII meets the requirements for: 🗵 The certification requested, or 4 Amendment or modification of its current airworthiness certificate. Inspection for a special flight permit under Section VII was conducted by: FAA inspector; certificate holder under FAR 65, FAR 121 or 127, or FAR 145. DATE DISTRICT OFFICE DESIGNEE'S SIGNATURE AND HO. FAA INSPECTOR'S SIGNATURE

I.W. Kutersklager

Lautenschlager, DOA, PC

FAA Form 8130-6 (7-70)

3-24-83

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1	A. MANUFACTURER		
PRODUCTION FLIGHT TESTING	NAME,	ADDRESS	
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5 =	PRODUCTION CERTIFICATE (Give production certificate num	iber)	
ΙğΞ	TYPE CERTIFICATE ONLY		
25	APPROVED PRODUCTION INSPECTION SYSTEM		
5	C CIVE CHANTING OF CONVENIENT PRODUCTION STREET		
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	with the Federal Aviation Administration in accordance with Section 1	er (or his agent) of the aircra't described above; that the aircraft is region 501 of the Federal Aviation Act of 1958, and applicable Federal A	sistered
	Regulations; and that the aircraft has been inspected and is airway	or the flight described.	viation
			!
	DATE NAME AND TILE (Print or 1) (SIGNATURE	1
Y) ON	A. Operating Limitations and Markings in Compliance with FAR	G. Statement of Confermity, FAA Form 317 (Attach ween requir	red)
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탏	B. Current Operating Limitations Atts shed	required)	
주를 됩	C. Data, Drawings, Photographs, etc. (Attach when required)	I. Previous Airworthiness Certificate Issued in Accordance with	
A SSE	K D. Current Weight and Balance Information Available in Aircraft	FAR CAR (Original attach	ibed)
38F	E, Major Repair and Alteration, PAA 337 (Attach when required	J. Current Airworthiness Certificate Issued in Accordance with	
⋝	X F. This Inspection Recorded in Aircraft Records	X FAR 21.183 (a) per 21.273	chest.

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DEPARTMENT OF TRANSPORTATION-FEDERAL AVIATION ADMINISTRATION ST YDARD AIRWORTHINESS CERT ICATE 1. NATIONALITY AND
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U.S DEPARTMENT OF TPANSPORTATION FEDERAL AVIATION ADMINISTRATION Form Approved Budget Bureau No. 04-R060.1 FOR FAA USE ONLY MAJOR REPAIR AND ALTERATION ACE-FSD0-31 (Airframe, Powerplant, Propeller, or Appliance) 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. MODEL T. AIRCRAFT SERIAL NO B-36TC NATIONALITY AND REGISTRATION MARK EA-327 N66113
ADDRESS (As shown on registration certificate) NAME (As shown on registration certificate) 2. OWNER 311 E. Washington P.O. Box 70 Pleasant, Your 52641 FOR FAA USE ONLY The data/alteration identified herein complies with the applicable airworthness requirements and is approved that for the above described aircraft, subject to confine the inspection by a person authorized py FA.R/43.7(a) OCT 0 5 1984 FAR Inspector ACE-FSDU-FA datei 4. UNIT IDENTIFICATION 5. TYPE MAKE SERIAL NO. ALTER REPAIR ATION AIRFRAME essessesses (As described in item 1 above) essessessessessesses \mathcal{X} Hightyr: POWERPLANT SEP 28 132 PROPELLER APPLIANCE MANUFACTURER 6. CONFORMITY STATEMENT A. AGENCY'S NAME AND ADDRESS B. KIND OF AGENCY C. CERTIFICATE NO. U.S. CERTIFICATED MECHANIC Elliote Flying Service, Inc. Drawer "D" South Dea Moines Station POREIGN CERTIFICATED MECHANIC CERTIFICATED REPAIR STATION 4310 Des Moines, Iowa 50315 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 September 25, 1984 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 Aviston Administration and is APPROVED REJECTED FAA PLT, STANDARDS OTHER (Specify) MANUFACTURER INSPECTION AUTHORIZATION CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT FAA DESIGNEE REPAIR STATION DATE OF APPROVAL OR REJECTION OF 1984 CERTIFICATE OR SIGNATURE OF AUTHORIZED INDIVIDUAL DESIGNATION NO.

4310

FAA Form 337 (7-67)

(8320)

Weight and balance or operating limitation changes skall be entered in the appropriate aircraft record. An interaction must be compatible with all previous alterations to assure continued conformity with the approach 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 ANNAV Systems, Inc. model AVA 1000A Loran C Navigation system previously contified for VER use only, has been reevaluated per Advisory Circular 90-65A. It is now centified 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 Autenna Fre Aup. :
- C. Loran C Ancenna
- D. Annunciator Assembly
- E. Interfaced with a King KFC 200 Autopilot/ Flight Director System, specifically a KI 525% MGI, FAW TSO C6c, and a KC 295 Autopilot Computer, FAW TSO C9c and C52a
- 2. Volghe & Balance computed and Pilot's Flight Nanual 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.
- 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.

ADDITIONAL SHEETS ARE ATTACHED

FAA AC 72-4906

s. U.S. GPO 1981 - 775-332,47

DEPARTMENT OF TRANSPORTATION Form Approved Budget Bureau No. 04-R060.1 FEDERAL AVIATION ADMINISTRATION FOR FAA USE ONLY MAJOR REPAIR AND ALTERATION OFFICE IDENTIFICATION (Airframe, Powerplant, Propeller, or Appliance) 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. MAKE MODEL Beechcraft B-36TC 1. AIRCRAFT SERIAL NO. NATIONALITY AND REGISTRATION MARK EA-347 N6611E NAME (As shown on registration certificate) ADDRESS (As shown on registration certificate) 2. OWNER 811 E. Washington P.O. Box 70 Broom & Associates, Inc. Mt. Pleasant, Iowa 3. FOR FAA USE ONLY 4. UNIT IDENTIFICATION TYPE UNIT MODEL ATION AIRFRAME X POWERPLANT PROPELLER APPLIANCE MANUFACTURER CONFORMITY STATEMENT A: AGENCY'S NAME AND ADDRESS B. KIND OF AGENCY C. CERTIFICATE NO. U.S. CERTIFICATED MECHANIC Elliott Flying Service, Inc. Drawer "D", South Des Moines Station FOREIGN CERTIFICATED MECHANIC CERTIFICATED REPAIR STATION 4310 Des Moines, Ioua 50315 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 ₽art 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 November 21, 1983 7. APPROVAL FOR REFURN TO SERVICE Pursuant to the authority given persons specifed below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is APPROVED REJECTED FAA FLT. STANDARDS OTHER (Specify) MANUEL CTURER INSPECTION AUTHORIZATION Β¥ CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT FAA DESIGNEE REPAIR STATION DATE OF APPROVAL OR REJECTION CERTIFICATE OR DESIGNATION NO. SIGNATURE OF AUTHORIZED INDIVIDUAL

November 21, 1983 FAA Form 337 (7-67)

GPO : 1972 6 - 475-509

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(8320)

CAMERA NO. 3 N DATE: 4 - 9 - 86

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. craft 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.

- 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.
- 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 tobbe predicated upon use of the Loran C. (Placard to be removed upon issuance of IFR certification.

ADDITIONAL SHEETS ARE ATTACHED

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9-14-83 FAA Form 337 (7-67)

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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, adn 3. Current revisions are contained in aircraft weight and balance report.
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