



US Department  
of Transportation  
Federal Aviation  
Administration

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

OMB No. 2120-0020  
Exp. 5/31/2018

Electronic Tracking Number

For FAA Use Only

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

1. Aircraft	Nationality and Registration Mark <b>UNITED STATES / N188TS</b>	Serial No. <b>RK-244</b>	
	Make <b>RAYTHEON AIRCRAFT COMPANY</b>	Model <b>400A</b>	Series
2. Owner	Name (As shown on registration certificate) <b>THORAIR LLC</b>	Address (As shown on registration certificate)	
		Address [REDACTED]	City <b>SANDUSKY</b> State <b>OHIO</b>
		Zip <b>44871-2218</b>	Country <b>UNITED STATES</b>

**3. For FAA Use Only**

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AIRFRAME	<u>RAYTHEON AIRCRAFT COMPANY</u>	(As described in item 1 above)	<u>RK-244</u>
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

**6. Conformity Statement**

A. Agency's Name and Address		B. Kind of Agency		
Name <b>Constant Aviation LLC</b>	Address [REDACTED]	U. S. Certificated Mechanic	Manufacturer	
City <b>CLEVELAND</b>	State <b>OH</b>	Foreign Certificated Mechanic	C. Certificate No.	
Zip <b>44143</b>	Country <b>USA</b>	Certificated Repair Station	<b>CRS#WC7R346J</b>	
		Certificated Maintenance Organization		

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

Extended range fuel per 14 CFR Part 43	<input type="checkbox"/>	<input type="checkbox"/>	10/04/2019
App. B			

**Return to Service**

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is			
	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Rejected	

BY	FAA Fit. Standards Inspector	<input type="checkbox"/>	Manufacturer	<input type="checkbox"/>	Maintenance Organization	<input type="checkbox"/>	Persons Approved by Canadian Department of Transport
	FAA Designee	<input checked="" type="checkbox"/>	Repair Station	<input type="checkbox"/>	Inspection Authorization	<input type="checkbox"/>	Other (Specify)

Certificate or Designation No. <b>CRS# WC7R346J</b>		Signature/Date of Authorized Individual			<input type="checkbox"/>	10/04/2019
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NOTICE

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

**8. Description of Work Accomplished**

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

UNITED STATES / N188TS

10/04/2019

Nationality and Registration Mark

Date

**Engine Inlet Rivet Repair**

Installed blind rivets in place of the damaged solid rivets on the lip of the right hand engine inlet forebody assembly part number 541000-004, serial number R0010, in accordance with nextant aerospace engineering order NT-EO-1118-31 rev IR dated 11/29/2018 with FAA form 8110-3 dated 11/30/2018.

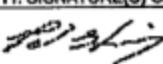
**Instructions for Continued Airworthiness:** Follow the maintenance inspection practices in the aircraft maintenance manual. Inspection intervals shall remain as indicated in the aircraft maintenance manual or operators approved inspection program as appropriate.

Weight and Balance unaffected.

Reference Constant Aviation work order CCM-3160

-----END-----

Additional Sheets Are Attached

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION <b>STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS</b>				1. DATE November 30, 2018
<b>AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION</b>				
2. MAKE Textron Aviation	3. MODEL NO. N541000-004	4. TYPE (Aircraft, Engine, Propeller, etc.) Forebody Assy	5. NAME OF APPLICANT Nextant Aerospace LLC Cleveland, Ohio	
<b>LIST OF DATA</b>				
6. IDENTIFICATION  NT-EO-1118-31 Rev. IR November 29, 2018	7. TITLE  Engine Inlet Rivet Repair.  ----- Notes:  1) The structural aspects only of the above listed data are approved herein. This approval is only for the engineering data. It indicates the data listed above demonstrates compliance only with the regulations specified by paragraph and subparagraph listed below as "Applicable Requirements."  2) This form constitutes FAA approval of all the engineering data necessary for substantiation of compliance to necessary requirements for the entire repair.			
8. PURPOSE OF DATA: Engineering data to support repair procedure for Textron 400A Forebody Assy P/N N541000-004, S/N R0010 under Nextant Aerospace Work Order No.10565.1.1.				
9. APPLICABLE REQUIREMENTS (List specific sections) CFR Title 14 Part 25.301[25-23], 25.303[25-23], 25.305(a)(b)(c)[25-23], 25.307(a)[25-23], 25.601[25-00], 25.603(a)(b)(c)[25-38], 25.605(a)[25-00], 25.607[25-23], 25.609(a)(b)[25-00], 25.611[25-23], 25.613(a)(b)(c)[25-00], 25.619[25-23], and 25.625(a)(b)(c)[25-23].				
10. CERTIFICATION - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under 14 CFR Part 183, data listed above and on attached sheets numbered <u>N/A</u> , have been examined in accordance with established procedures and found to comply with applicable requirements of the Airworthiness Standards Listed.				
I (We) Therefore <input type="checkbox"/> Recommend approval of these data <input checked="" type="checkbox"/> Approve these data				
11. SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S)	12. DESIGNATION NUMBERS(S)	13. CLASSIFICATION(S)		
	██████████	DERT-410115-CE      Structures		





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

OMB No. 2120-0020  
Exp. 5/31/2018

Electronic Tracking Number

For FAA Use Only

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

1. Aircraft	Nationality and Registration Mark <b>UNITED STATES / N188TS</b>	Serial No. <b>RK-244</b>
	Make <b>RAYTHEON AIRCRAFT COMPANY</b>	Model <b>400A</b>
2. Owner	Name (As shown on registration certificate) <b>THORAIR LLC</b>	Address (As shown on registration certificate) Address [REDACTED]
		City <b>SANDUSKY</b> State <b>OHIO</b> Zip <b>44871-2218</b> Country <b>UNITED STATES</b>

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AIRFRAME	<u>RAYTHEON AIRCRAFT COMPANY</u>	(As described in item 1 above)	<u>RK-244</u>
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name	Constant Aviation LLC	U. S. Certificated Mechanic	Manufacturer
Address	[REDACTED]	Foreign Certificated Mechanic	C. Certificate No.
City	CLEVELAND	Certificated Repair Station	CRS#WC7R346J
Zip	44143	Certificated Maintenance Organization	

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

Extended range fuel  
per 14 CFR Part 43  
App. B  [REDACTED] 10/04/2019

Return to Service

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

BY	<input type="checkbox"/>	FAA Fit. Standards Inspector	<input type="checkbox"/>	Manufacturer	<input type="checkbox"/>	Maintenance Organization	<input type="checkbox"/>	Persons Approved by Canadian Department of Transport
	<input type="checkbox"/>	FAA Designee	<input checked="" type="checkbox"/>	Repair Station	<input type="checkbox"/>	Inspection Authorization	<input type="checkbox"/>	Other (Specify)
Certificate or Designation No. CRS# <b>WC7R346J</b>			Signature/Date of Authorized Individual					

10/04/2019

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.)*

UNITED STATES / N188TS

10/04/2019

Nationality and Registration Mark

Date

**Engine Inlet Rivet Repair**

Installed blind rivets in place of the damaged solid rivets on the lip of the right hand engine inlet forebody assembly part number 541000-004, serial number R0010, in accordance with nextant aerospace engineering order NT-EO-1118-31 rev IR dated 11/29/2018 with FAA form 8110-3 dated 11/30/2018.

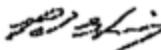
**Instructions for Continued Airworthiness:** Follow the maintenance inspection practices in the aircraft maintenance manual. Inspection intervals shall remain as indicated in the aircraft maintenance manual or operators approved inspection program as appropriate.

Weight and Balance unaffected.

Reference Constant Aviation work order CCM-3160

-----END-----

Additional Sheets Are Attached

STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS					1. DATE November 30, 2018
AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION					
2. MAKE Textron Aviation	3. MODEL NO. N541000-004	4. TYPE (Aircraft, Engine, Propeller, etc.) Forebody Assy	5. NAME OF APPLICANT Nextant Aerospace LLC Cleveland, Ohio		
LIST OF DATA					
6. IDENTIFICATION  NT-EO-1118-31 Rev. IR November 29, 2018	7. TITLE  Engine Inlet Rivet Repair.  -----END-----  Notes:  1) The structural aspects only of the above listed data are approved herein. This approval is only for the engineering data. It indicates the data listed above demonstrates compliance only with the regulations specified by paragraph and subparagraph listed below as "Applicable Requirements."  2) This form constitutes FAA approval of all the engineering data necessary for substantiation of compliance to necessary requirements for the entire repair.				
8. PURPOSE OF DATA: Engineering data to support repair procedure for Textron 400A Forebody Assy P/N N541000-004, S/N R0010 under Nextant Aerospace Work Order No.10565.1.1.					
9. APPLICABLE REQUIREMENTS (List specific sections) CFR Title 14 Part 25.301[25-23], 25.303[25-23], 25.305(a)(b)(c)[25-23], 25.307(a)[25-23], 25.601[25-00], 25.603(a)(b)(c)[25-38], 25.605(a)[25-00], 25.607[25-23], 25.609(a)(b)[25-00], 25.611[25-23], 25.613(a)(b)(c)[25-00], 25.619[25-23], and 25.625(a)(b)(c)[25-23].					
10. CERTIFICATION - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under 14 CFR Part 183, data listed above and on attached sheets numbered <u>N/A</u> have been examined in accordance with established procedures and found to comply with applicable requirements of the Airworthiness Standards Listed.					
<input type="checkbox"/> Recommend approval of these data <input checked="" type="checkbox"/> Approve these data					
I (We) Therefore					
11. SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S)			12. DESIGNATION NUMBERS(S)	13. CLASSIFICATION(S)	
 <span style="background-color: black; color: black; display: inline-block; width: 150px; height: 20px; vertical-align: middle;"></span>			DERT-410115-CE	Structures	

EFTA00011676

## ARTICLE DESCRIPTION

Effectivity (Aircraft Model) Textron Aviation 400A	Aircraft Serial Number(s) See Remarks
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## Description and/or Reason

The purpose of this EO is to allow for the installation of blind rivets (P/N: CR3212-5-XX) of appropriate length in place of the damaged solid rivet (P/N: MS20426AD5-XX) on the engine inlet forebody assembly. The repair will be accomplished on the RH engine inlet forebody assembly (P/N: N541000-004, S/N: R0010).

## REGULATORY

Any impact to the following items will result in automatic classification of MAJOR. FAA approval is required for all items classified as MAJOR.				
AFM Change <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	RVSM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	MEL <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Inspection tasks/Interval <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Previous Major Repair/Alterations <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Does this EO significantly affect weight, balance, structural strength, aircraft performance, powerplant operation, flight characteristics, or other airworthiness qualities?				<input type="checkbox"/> MAJOR <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Can this EO be accomplished by accepted practices or elementary operations?				<input type="checkbox"/> MINOR <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
If improperly done, could this EO appreciably affect airworthiness?				<input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Classification <input checked="" type="checkbox"/> MAJOR <input type="checkbox"/> MINOR <input checked="" type="checkbox"/> STC (No. ST02371LA)	Weight and/or Balance Change <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	FAA APPROVAL/8110-3 <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		

## GENERAL

Drawing List/Attachments Figure 1: Damaged Rivet Location on RH Engine Inlet Lip (Typical Shown)	
Equipment List Update <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Remarks/References Inlet: P/N: N541000-004 S/N: R0010 WO: 10565.1.1 (Original WO, IR with approval), 13003 (IR.1 WO) CherryMax Process Specification: CA-1015

## REVISION

REVISION	DATE	DESCRIPTION	ECR #	REVISED BY
IR	11/29/2018	Initial Proposal	N/A	P. Avshalumov
IR.1	10/1/2019	Updated to remove specific number of rivets from description, change is minor and 8110-3 at IR stands	N/A	P. Avshalumov

ACTION	NAME	DATE
Prepared By		10/1/2019
Checked By		10/1/2019
Approved By	Digitally signed by Pinkhas Avshalumov Date: 2019.10.02 09:53:20 -04'00'	10/1/2019

EFTA00011678

## LIMITATIONS

None

**INSTRUCTIONS FOR CONTINUING AIRWORTHINESS (ICA's)**

Follow the maintenance inspection practices in the aircraft maintenance manual. Inspection intervals shall remain as indicated in the aircraft maintenance manual or operators approved inspection program as appropriate.

## COMPLIANCE

AIRCRAFT MODEL [REDACTED]	AIRCRAFT REGISTRATION N188TS	AIRCRAFT SERIAL NUMBER R1K244
Air Station ID or Individual's AAF number [REDACTED]		DATE 10/2/19
CRS# WC7R346J		

EFTA00011680

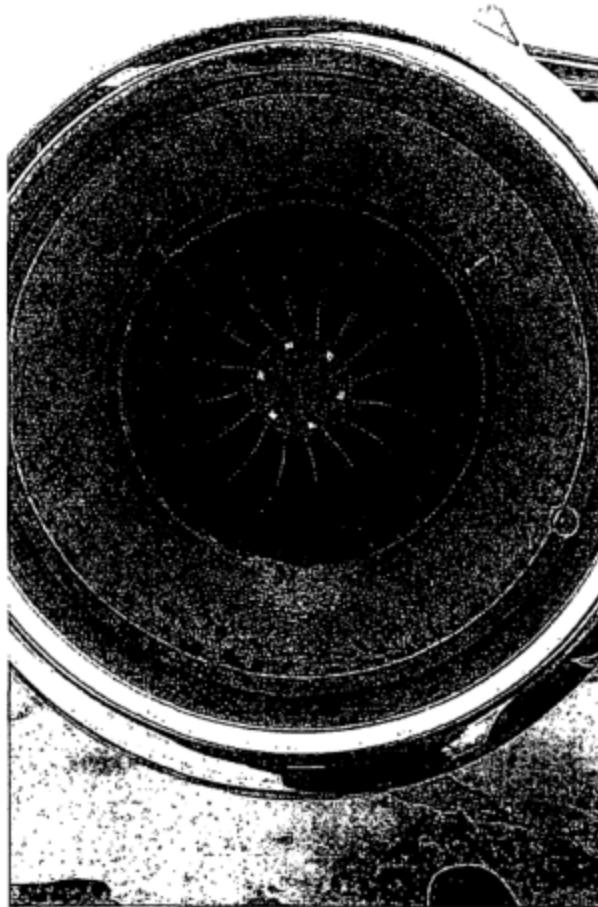


Figure 1: Damaged Rivet Location on RH Engine Inlet Lip (Typical Shown)





US Department  
of Transportation  
Federal Aviation  
Administration

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

OMB No. 2120-0020  
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Electronic Tracking Number

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

1. Aircraft	Nationality and Registration Mark <b>UNITED STATES / N188TS</b>	Serial No. <b>RK-244</b>		
	Make <b>RAYTHEON AIRCRAFT COMPANY</b>	Model <b>400A</b>	Series	
2. Owner	Name (As shown on registration certificate) <b>THORAIR LLC</b>	Address (As shown on registration certificate)		
	Address			
	City <b>SANDUSKY</b>	State <b>OH</b>	Zip <b>44871</b>	Country <b>UNITED STATES</b>

**3. For FAA Use Only**

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	<u>RAYTHEON AIRCRAFT COMPANY</u>	(As described in Item 1 above)	<u>RK-244</u>
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

**6. Conformity Statement**

A. Agency's Name and Address		B. Kind of Agency	
Name <b>CONSTANT AVIATION</b>	Address [REDACTED]	U. S. Certificated Mechanic	Manufacturer
City <b>CLEVELAND</b>	State <b>OH</b>	Foreign Certificated Mechanic	C. Certificate No.
Zip <b>44143</b>	Country <b>UNITED STATES</b>	Certificated Repair Station	<b>CRS# WC7R346J</b>
		Certificated Maintenance Organization	

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

Extended range fuel per 14 CFR Part 43 App. B	Signature	[REDACTED]	[REDACTED]	10/7/2019
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**7. Approval for Return to Service**

Pursuant to the authority given persons specified below, the unit identified in Item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is							
<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Rejected							
BY	FAA Fit. Standards Inspector	<input type="checkbox"/>	Manufacturer	<input type="checkbox"/>	Maintenance Organization	<input type="checkbox"/>	Persons Approved by Canadian Department of Transport
	FAA Designee	<input checked="" type="checkbox"/>	Repair Station	<input type="checkbox"/>	Inspection Authorization	<input type="checkbox"/>	Other (Specify)
Certificate or Designation No.		Signature/Date of Authorized Individual					
<b>CRS# WC7R346J</b>		<b>[Signature]</b>					
					10/7/2019		

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.)*

UNITED STATES / N188TS	10/7/2019
Nationality and Registration Mark	Date

**INSTALLATION OF ADS-B OUT ON PART 25 AIRCRAFT**

Complied with installation of BHE & Associates, LTD. STC# ST11216DS Installation of Automatic Dependent Surveillance-Broadcast Out on Part 25 Aircraft IAW BHE & Associates,LTD. Master Data List (MDL) number 584-00-0001 Rev.G. Dated 8/29/2019.

Reference BHE & Associates, LTD. Aircraft Flight Manual Supplement (AFMS) Installation of ADS-B Out on Part 25 Aircraft. Report number 584-00-0046 Rev.C. Dated 5/4/2019.

Reference BHE & Associates, LTD. Electrical Load Analysis (ELA) Installation of ADS-B Out on Part 25 Aircraft. Report number 584-00-0050 Rev.B. Dated 10/9/2018.

Reference BHE & Associates, LTD. Instructions for Continued Airworthiness (ICA) Installation of ADS-B Out on Part 25 Aircraft. Report number 584-00-0047 Rev.D. Dated 3/19/2019.

Weight and Balance: Reference calculated weight and balance dated 10/7/2019.

Equipment List: Updated.

Reference Work Order: CCM-R3160.

END

Additional Sheets Are Attached



United States of America  
Department of Transportation  
Federal Aviation Administration

## Supplemental Type Certificate

Number: ST11216DS

This certificate issued to: BHE & Associates, Ltd.  
[REDACTED]

San Antonio, TX 78216

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations.

Original Product – Type Certificate Number:

Make: See attached AML

Model: See attached AML

See attached approved model list  
(AML)

Description of Type Design Change:

Installation of automatic dependent surveillance-broadcast (ADS-B) out on Part 25 aircraft, in accordance with Master Data List 584-00-0001, Revision IR, dated June 29, 2018 or later FAA approved revision. For Instructions for Continued Airworthiness and Airplane Flight Manual Supplement reference the attached AML.

Limitations and Conditions:

1. The installer must determine whether this design change is compatible with previously approved modifications.
2. If the holder agrees to permit another person to use this certificate to alter a product, the holder must give the other person written evidence of that permission.
3. See attached AML for additional limitations and conditions.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, and revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of Application: February 9, 2018

Date Reissued:

Date of Issuance: June 29, 2018

Date Amended:

By Direction of the Administrator

Signature \_\_\_\_\_

Title VT DRB Aviation Project ODA Administrator  
ODA-831473-SW

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).



*United States of America  
Department of Transportation  
Federal Aviation Administration*

## *Supplemental Type Certificate*

**INSTRUCTIONS:** The transfer endorsement below may be used to notify the appropriate FAA Aircraft Certification Office of the transfer of this Supplemental Type Certificate. The FAA will reissue the certificate in the name of the transferee and forward it to him.

### *Transfer Endorsement*

*Transfer the ownership of Supplemental Type Certificate Number: ST11216DS*

**To** (Name and address of transferee)

**From** (Name and address of grantor)

Extent of Authority (if licensing agreement):

*Date of transfer:*

*Signature of grantor:* \_\_\_\_\_

---

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).

---

**INSTRUCTIONS FOR CONTINUED AIRWORTHINESS  
FOR THE  
INSTALLATION OF ADS-B OUT  
ON  
PART 25 AIRCRAFT**

**REPORT No. 584-00-0047**

**Revision D**

**Date: 03/19/2019**

**NOTICE:**

The contents of this document are proprietary to BHE & Associates, Ltd. and shall not be disclosed, disseminated, copied, or used except for purposes expressly authorized in writing by BHE & Associates, Ltd.

**BHE & Associates, Ltd.  
San Antonio, TX 78216 USA  
CAGE: N/A**

**INSTRUCTIONS FOR CONTINUED AIRWORTHINESS**

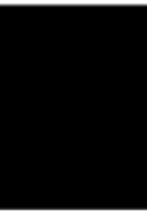
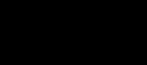
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**NOTICES AND SIGNATURES**

**Notices:**

Note: Paragraphs and/or figure numbers followed by " | " indicate a change by latest revision.

**Approval Signatures:**

	NAME	SIGNATURE
Prepared by:		See rev IR
Checked by:		See rev IR
Approved by:		See rev IR

## INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

Record of Revisions

Revision Number	Description of change	Revision Date	Approved By
IR	Initial Release	5/9/18	
A	Page 8, Section 1.1 revised transponder and GPS part numbers. Page 10, Section 2 remove "Flight Hours" from Table 4	6/27/18	
B	Page 4, Revised list of aircraft models in Introduction Pages 9, 24-25, 28-29, Revised aircraft models in Tables 3, 7, and 9. Pages 8 and 28, clarified wording for installation.	11/6/18	
C	Revised Table 3 on page 9 Revised Table 4 on page 10 Revised Table 5 on page 26 Revised Table 6 on pages 27 & 28 Revised section 6.1.9 on page 31 Revised figures on pages 13 & 20, Added figures on pages 14, 17 & 18	1/18/19	
D	Added STC number on page 4. Added figure on page 24. Revised form in Appendix C.	3/19/19	

## INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

## INTRODUCTION

These Instructions for Continued Airworthiness (ICA) document have been developed using the guidelines in Appendix "H" of 14 CFR Part 25 as required by §FAR 21.50 and §25.1529.

This document is designed to provide avionics and aircraft technicians with sufficient information to inspect, troubleshoot, adjust, repair, test, remove, and install ADS-B on the following Part 25 Aircraft.

- Bombardier Inc. - CL-600-1A11, CL-600-2A12, CL-600-2B16 (Challengers)
- Gulfstream Aerospace -1125 Westwind Astra, Astra SPX, Gulfstream 100, G150
- Gulfstream - G-1159, G-1159A, G-1159B, G-IV, GV
- Gulfstream - 200
- Sabreliner - NA-265-65, NA-265-70, NA-265-80
- Textron Aviation Inc. – 500, 550, S550, 560 (Citation)
- Textron Aviation – 400, 400A (Beechjet)
- Textron Aviation - 650
- Textron Aviation - HS.125 Series 700A, HS.125 Series 700B, BAe.125 Series 800A, BAe.125 Series 800B, Hawker 800XP, Hawker 750, Hawker 850XP, Hawker 900XP
- Learjet – 60 (STC Aircraft)
- Dassault Aviation – Falcon 10, Mystere-Falcon 50, Mystere-Falcon 20-C5/D5/E5/F5, Mystere-Falcon 200, Mystere-Falcon 900

Table 1: Equipment

Type	Description	New CPN	Qty
<b>DO-260B ADS-B Out</b>			
TDR-94	Transponder	622-9352-502	0, 1 or 2*
TDR-94D	Transponder	622-9210-502	0, 1 or 2*
GPS1203C	GPS Receiver	84327-50-XXXX	0 or 1
CI 429-200	GPS Antenna	CI 429-200	0 or 1
GPS-4000S	GPS Receiver	822-2189-004/005/006/007/010/011/100	0, 1 or 2

**\*Either TDR-94 or TDR-94D will be installed.**

The above equipment is installed in accordance with FAA Supplemental Type Certificate No. ST11216DS. See the List of Applicable Publications (LOAP) in Appendix A of this document. The publications listed in the LOAP constitute the required information essential for continued airworthiness for the aircraft.

The documents contained in the LOAP are a necessary part of this ICA and the latest revision should be available to maintenance personnel when performing maintenance. The STC holder will continue to monitor changes to the ICA that were the basis of the supplementary ICA and provide revised supplemental ICA as necessary. The information in this document supplements or supersedes the original manufacturer's maintenance manual only in those areas listed. For limitations, procedures and other information not contained in this document, refer to the aircraft manufacturer's maintenance manuals, illustrated parts manuals and wiring diagrams or the vendor manuals as listed in the LOAP.

**INSTRUCTIONS FOR CONTINUED AIRWORTHINESS**

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**RECORD OF REVISIONS**

For continuous use of this document, this document must be maintained in current revision status. Each time the STC holder finds it necessary to revise this document; a revision will be distributed to all users of the STC. Revisions will be supplied to the customer by:

- a) E-mail with an attached PDF file, or
- b) Compact Disc (CD) via mail

Changes to this document will be incorporated by an updated revision to the complete document.

All pages will indicate the "new" revision level. Upon receipt of the new revision, the previous revision should be discarded and replaced with the updated, current, revision. Changes to this document will be listed in the revision block on page 3.

It is the responsibility of the person(s) performing maintenance on the installed system to ensure that this document is current prior to performing this maintenance. The current revision number may be verified by contacting the STC holder, BHE & Associates.

Report any discrepancies to the installation of this STC using the form in Appendix C of this document. Once filled out the form must be sent to both the ODA and the STC holder. Their addresses are as follows:

**ODA**

VT-DRB Aviation Consultants

[REDACTED]  
San Antonio, Texas 78216

**STC Holder**

BHE & Associates Ltd.

[REDACTED]  
San Antonio, Texas 78216

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**INSTRUCTIONS FOR CONTINUED AIRWORTHINESS**

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**INSTRUCTIONS FOR CONTINUED AIRWORTHINESS**

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## INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

**1 SYSTEM DESCRIPTION****1.1 GENERAL**

This STC will include installations and/or updates to equipment to allow for Automatic dependent surveillance –broadcast Out (ADS-B Out). ADS-B periodically broadcasts information about each aircraft, such as identification, current position, altitude, and velocity, through an onboard transmitter. The equipment list in Table 2 below details the equipment required for this installation.

The TDR-94/94D Transponder(s) will be upgraded to part number 622-9352-502 (94) or 622-9210-502 (94D), if not previously installed. The TDR-94/94D Transponder is an all solid-state, crystal-controlled receiver/transmitter.

The transponder(s) will get the GPS information from either a newly installed Freeflight GPS1203C GPS receiver and dedicated GPS antenna; or, a GPS-4000S GPS receiver. Depending on the aircraft configuration, the GPS-4000/A/S may be previously installed. If the previously installed GPS-4000/A/S is not a part number 822-2189-004/005/006/007/010/011/100 it will have to be upgraded to one of these part numbers. (Reference Tables shown on drawing 584-00-0004 for applicable GPS installation based on aircraft model)

Wiring is added dependent on the installed or replaced GPS receiver(s), Transponder(s), and annunciator installed. (Reference Tables shown on drawing 584-00-0004 for applicable installations based on aircraft model and subsequent Wire Routing drawing 584-00-0005). See section 6.1.9 for details on inspection.

An optional ADS-B Out annunciator can be installed to alert the pilot that the ADS-B function of the active transponder is not properly functioning. The ADS-B Out annunciator is required for all standalone GPS installations. Standalone means the GPS only provides data to the transponders. All 1203C installations and 4000S installations that only connect to the transponders are standalone. It can be installed as an option for installations where the 4000S is used for both ADS-B and FMS navigation. ((Reference Tables shown on drawing 584-00-0004 for applicable ADS-B Out Annunciator installation based on aircraft model)

**Table 2 Equipment List**

Type	Description	New CPN	Qty
<b>DO-260B ADS-B Out</b>			
TDR-94	Transponder	622-9352-502	0, 1 or 2*
TDR-94D	Transponder	622-9210-502	0, 1 or 2*
GPS1203C	GPS Receiver	84327-50-XXXX	0 or 1
CI 429-200	GPS Antenna	CI 429-200	0 or 1
GPS-4000S	GPS Receiver	822-2189-004/005/006/007/010/011/100	0, 1 or 2

**\*Either TDR-94 or TDR-94D will be installed.**

## INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

Table 3 below lists the equipment being installed by aircraft. The aircraft will leave with updated TDR-94s or 94Ds depending on the what transponder was already existing.

Table 3 Equipment by Aircraft

Aircraft	Transponder Installed/Retained/Replaced	GPS Installed/Replaced	Antenna Installed
Learjet 60	TDR-94s or 94Ds	GPS-1203C or GPS-4000S	CI 429-200
Gulfstream Aerospace 1125 Westwind Astra, Astra SPX, Gulfstream 100, G150	TDR-94s or 94Ds	GPS-4000S	N/A
Gulfstream G-1159, G-1159B, G-IV, GV	TDR-94s or 94Ds	GPS-1203C or GPS-4000S	CI 429-200
Gulfstream G-1159A	TDR-94s or 94Ds	GPS-4000S	N/A
Gulfstream 200	TDR-94s or 94Ds	GPS-4000S	N/A
Textron Aviation 500	TDR-94s or 94Ds	GPS-1203C or GPS-4000S	CI 429-200
Textron Aviation 550, S550, 560	TDR-94s or 94Ds	GPS-1203C or GPS-4000S	CI 429-200
Textron Aviation 400	TDR-94s or 94Ds	GPS-1203C or GPS-4000S	CI 429-200
Textron Aviation 400A	TDR-94s or 94Ds	GPS-4000S	N/A
Textron Aviation 650	TDR-94s or 94Ds	GPS-1203C or GPS-4000S	CI 429-200
Bombardier CL-600-1A11 CL-600-2A12, CL-600-2B16	TDR-94s or 94Ds	GPS-1203C or GPS-4000S	CI 429-200
Sabreliner NA-265-65, NA-265-70, NA-265-80	TDR-94s or 94Ds	GPS-4000S	N/A
Textron Aviation HS.125 700A, BAe.125 800A/800B, Hawker 800XP	TDR-94s or 94Ds	GPS-1203C or GPS-4000S	CI 429-200
Textron Aviation HS.125 700B, Hawker 750/850XP/900XP	TDR-94s or 94Ds	GPS-4000S	N/A
Dassault Aviation Falcon 10, Mystere-Falcon 50, Mystere-Falcon 20-C5/D5/E5/F5, Mystere-Falcon 200, Mystere-Falcon 900	TDR-94s or 94Ds	GPS-4000S	N/A

**INSTRUCTIONS FOR CONTINUED AIRWORTHINESS****2 AIRWORTHINESS LIMITATIONS**

The Airworthiness Limitations section is FAA approved and specifies maintenance required under 14 CFR §§43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

**2.1 Inspection Intervals**

The following items require high Frequency Eddie Current inspections including 2.0 inch detailed visual inspection around periphery of the installation. Inspections as listed in the table below.

**Table 4 Inspection Intervals**

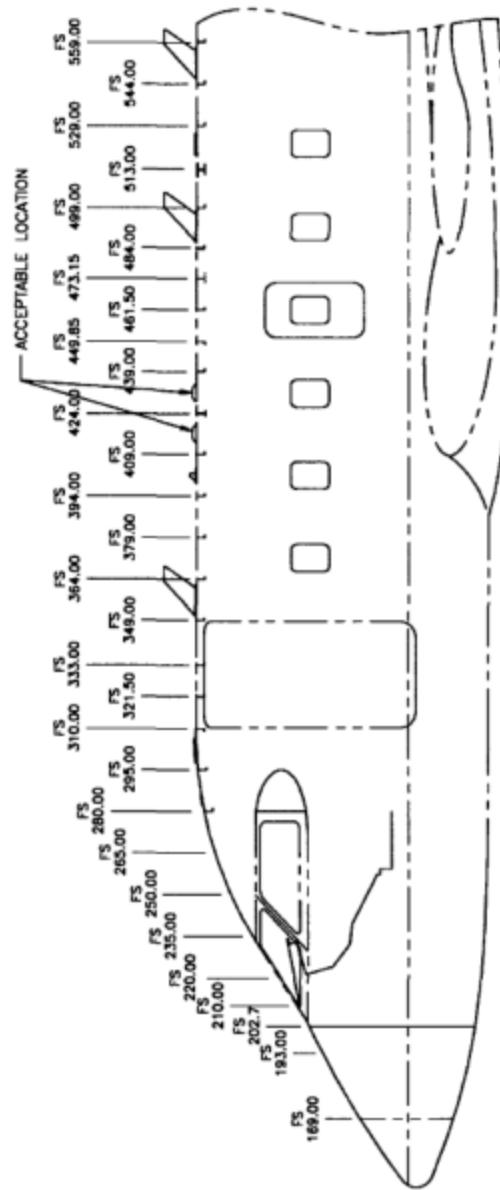
Inspection requirements are for AML fuselage modification			
	Inspection Intervals (Flight Cycles)		Detectable Crack Length (in.)
	Threshold	Recurring	
Fwd bulkhead penetrations	4,000	4,000	0.200
GPS Antenna Installation	6,700	6,350	0.200
GPS Antenna Installation (See Note 1)	5,650	5,400	0.200

Note1: These intervals are applicable to the Textron Aviation Cessna 650 and all the Gulfstream Models

The following images specify antenna installation and bulkhead feedthrough installation locations.

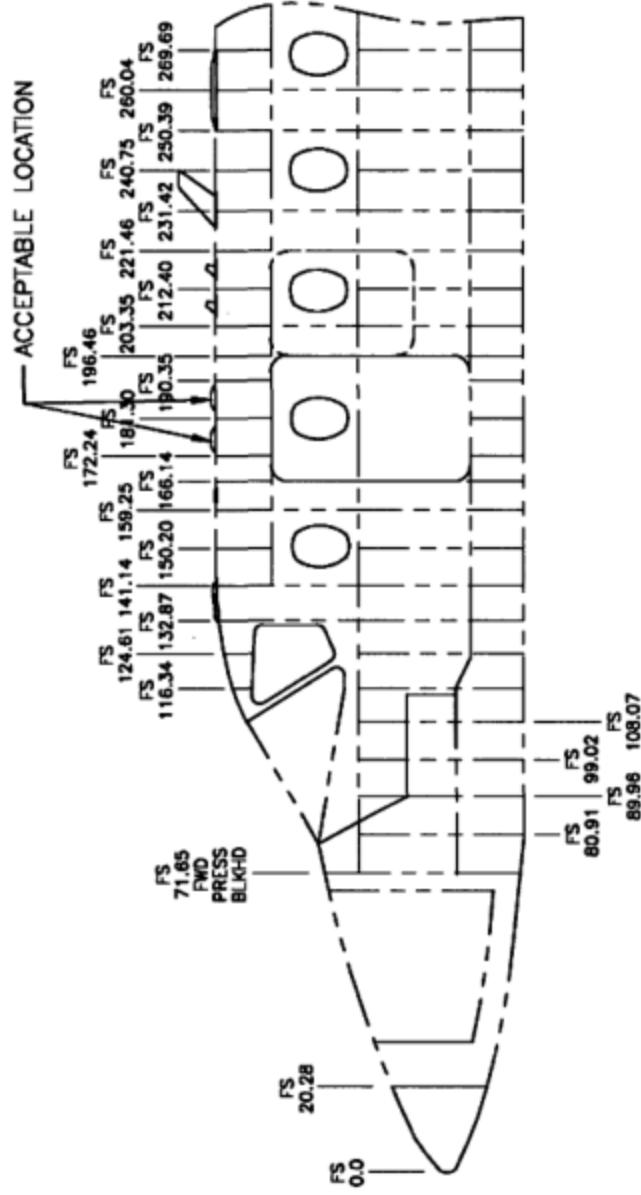
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

BOMBARDIER INC. CL-600-1A11 (CL-600),  
-2A12 (CL-601), -2B16 (CL-601-3A VARIANT,  
CL-601-3R VARIANT, CL-604 VARIANT)



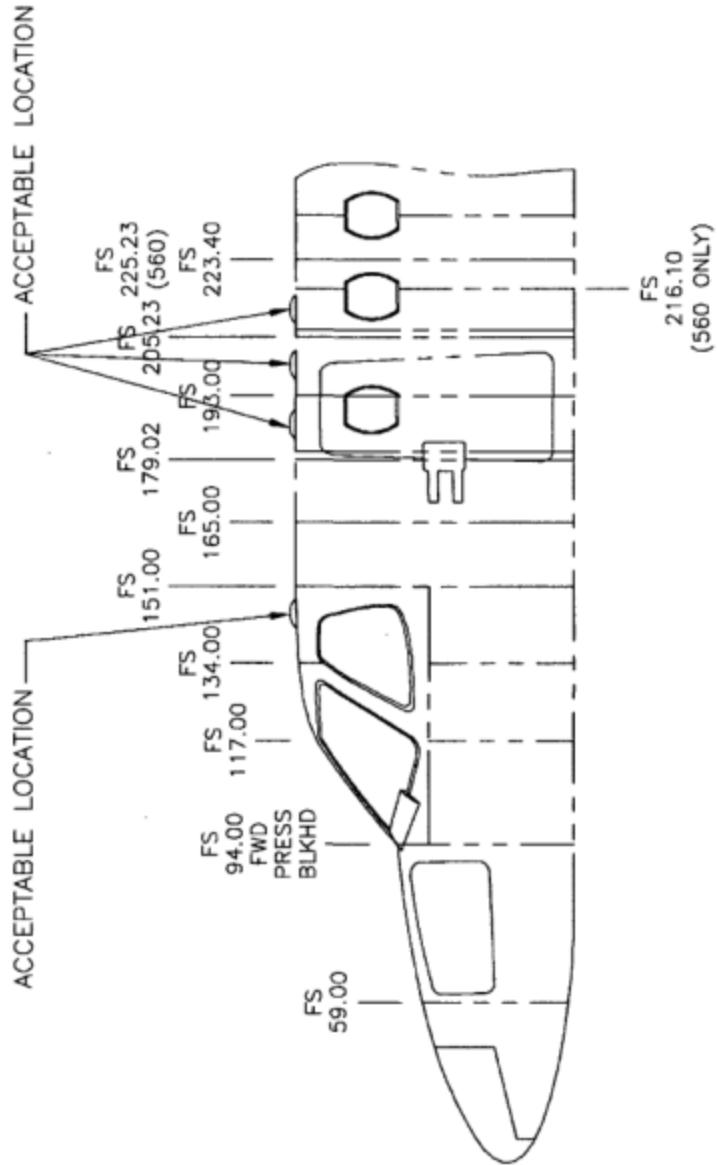
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

TEXTRON AVIATION 400



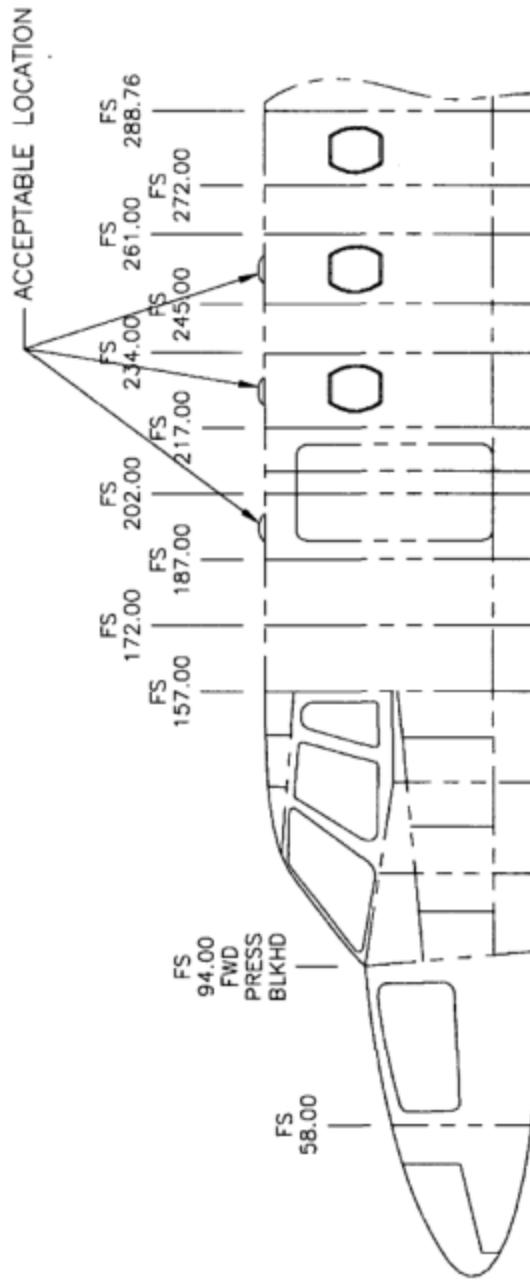
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

TEXTRON AVIATION INC.  
550, S550, 560

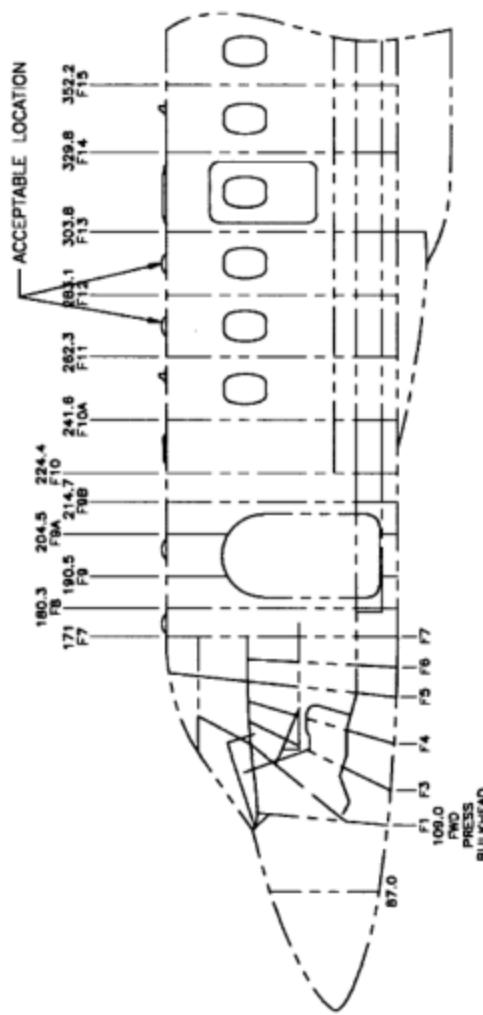


INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

TEXTRON AVIATION INC. 650

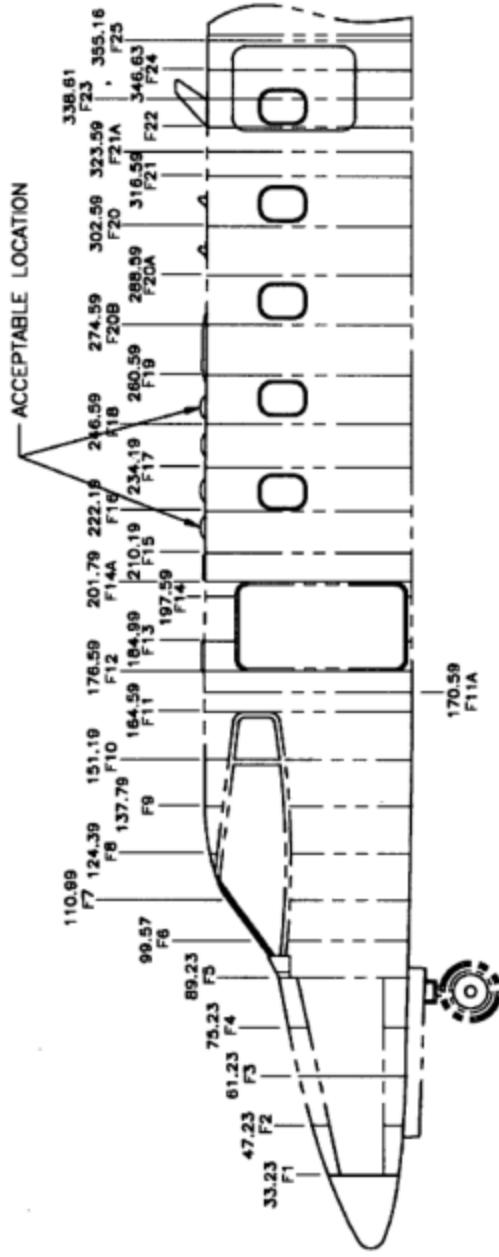


HS.125 SERIES 700A, BAe.125 SERIES 800A & 800B,  
TEXTRON AVIATION  
HAWKER 800XP



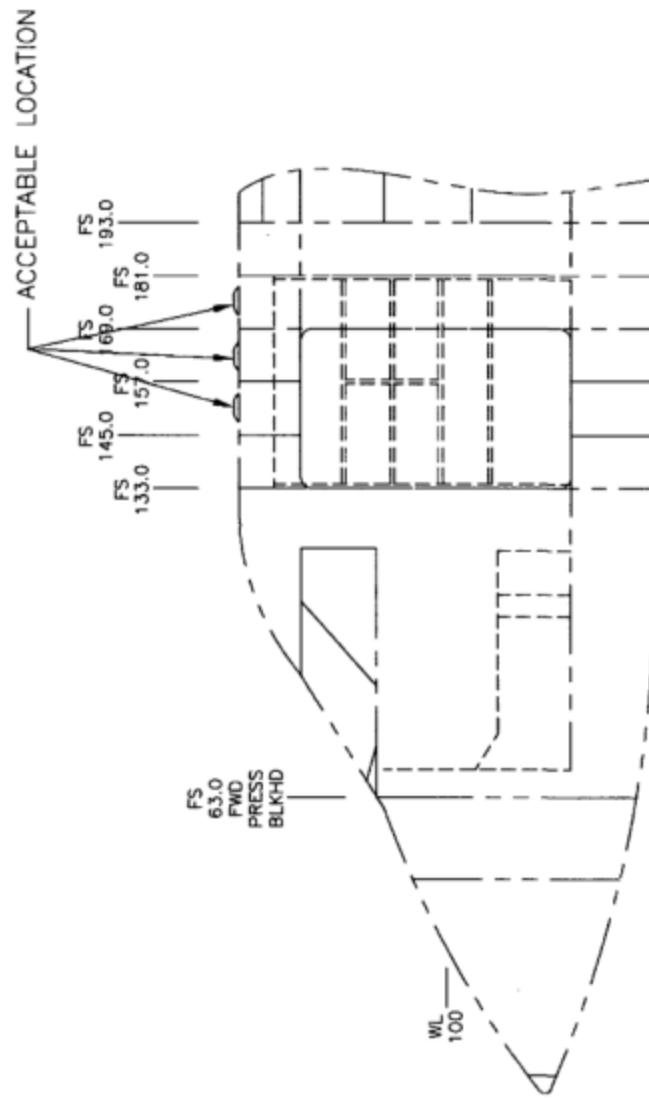
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

LEARJET 60



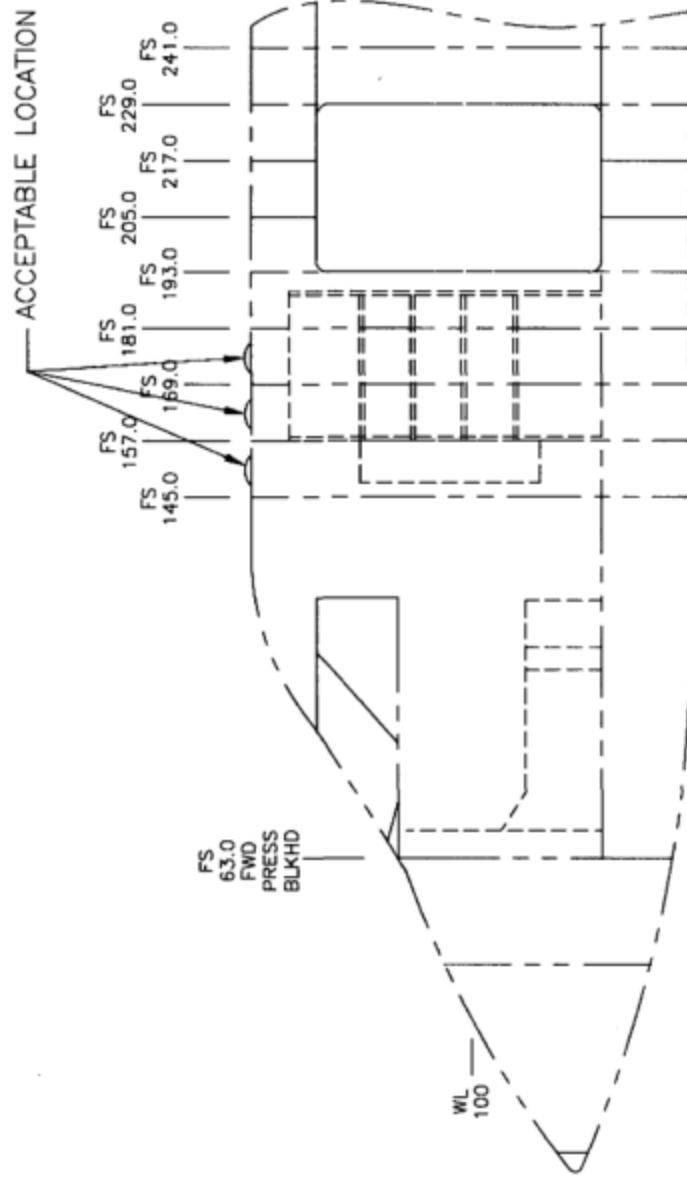
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

GULFSTREAM G-1159,  
G-1159B, G-IV

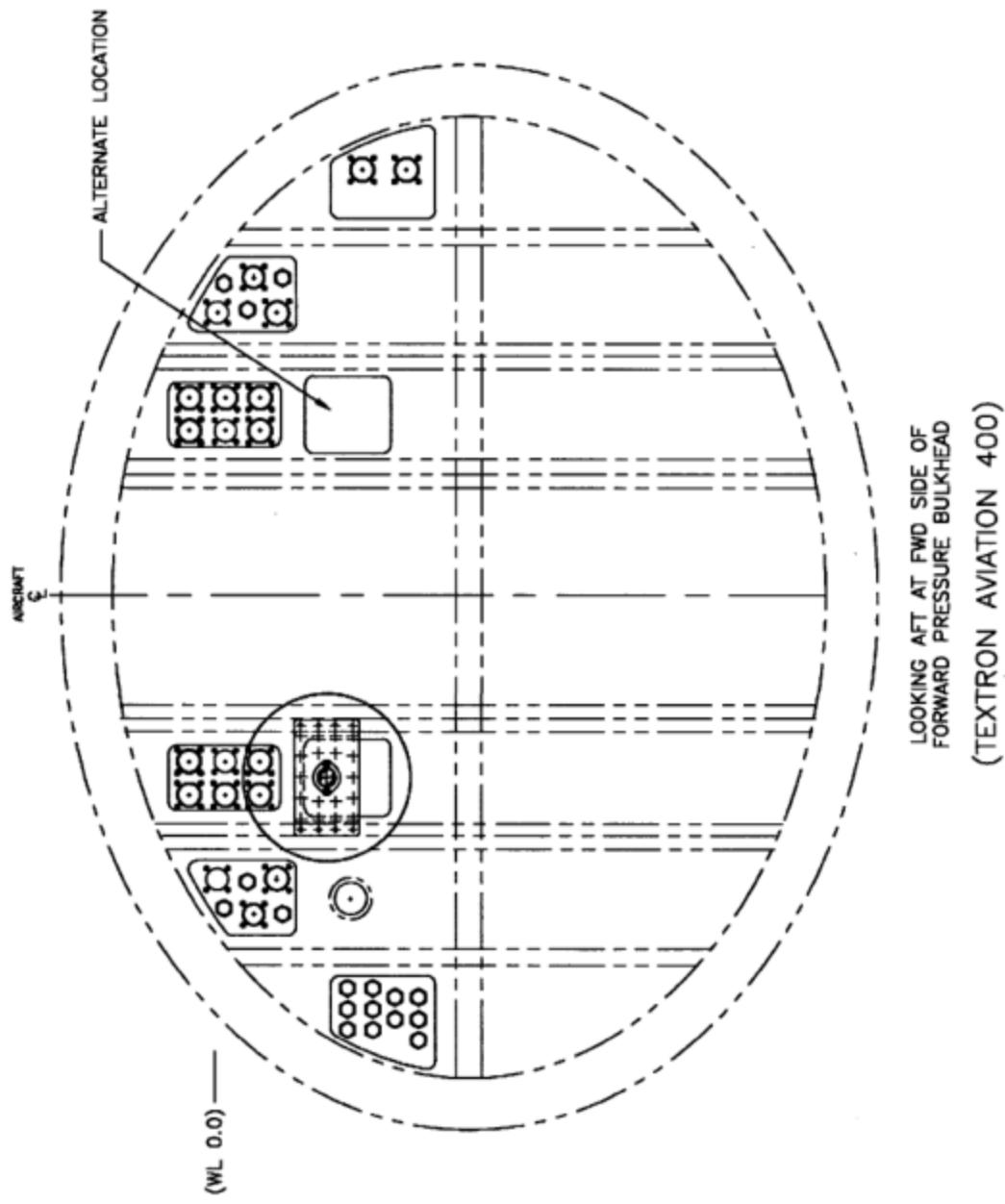


INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

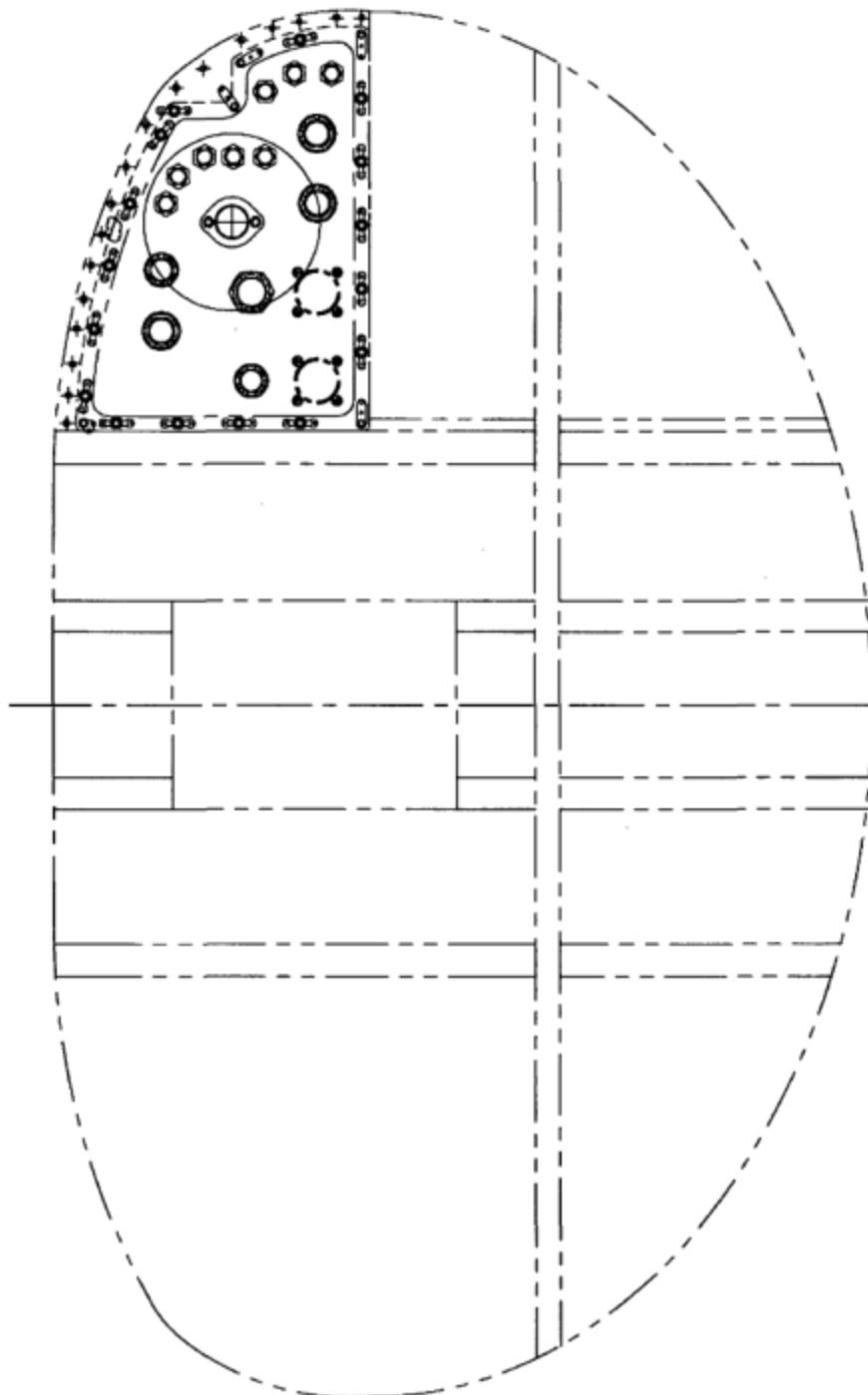
# GULFSTREAM GV



INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

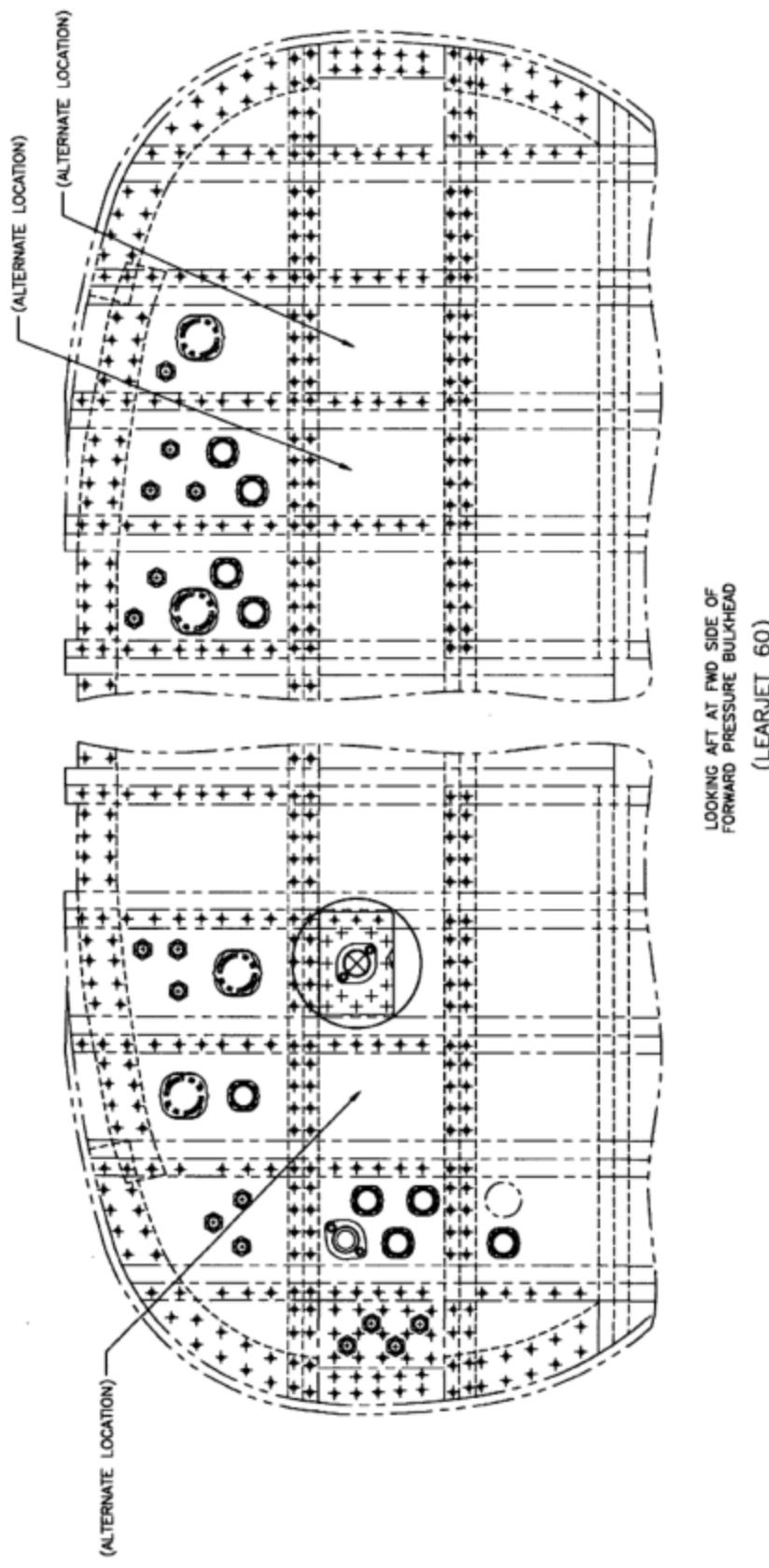


INSTRUCTIONS FOR CONTINUED AIRWORTHINESS



(TEXTRON AVIATION INC. 500, 550, S550, 560)

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS



## **INSTRUCTIONS FOR CONTINUED AIRWORTHINESS**

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### **2.2 Inspection Program**

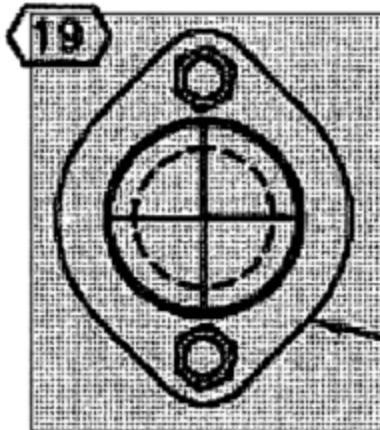
Perform additional fuselage modification inspections.

### **2.3 Inspection Method**

Inspect fuselage skin in the modification area, doubler fastener holes area, using high frequency eddy current inspection techniques, according to the intervals outlined in table 4. The detectable crack length for eddy current inspection techniques is 0.200". For the fastener holes, the inspector should look for cracks on the surface of the skin and doubler around the fastener holes.

**INSTRUCTIONS FOR CONTINUED AIRWORTHINESS**

**INSPECTION AREA & METHOD**  
**FWD BULKHEAD PENETRATIONS**

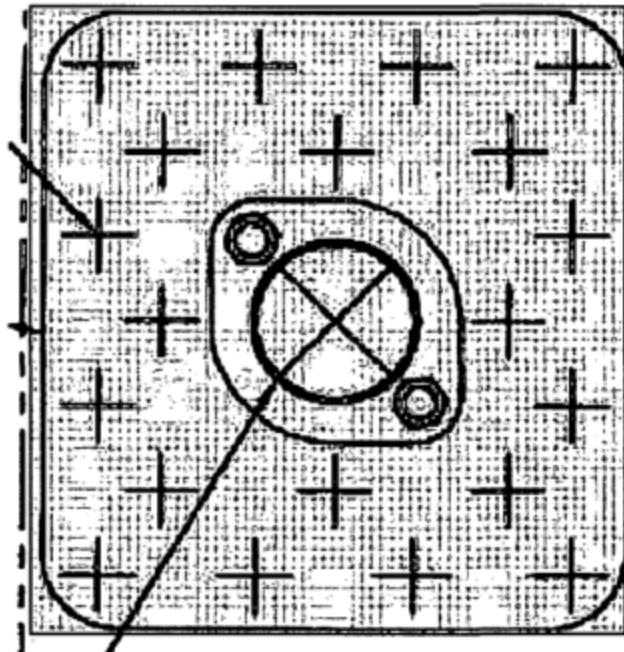


Typical Installation shown. Inspections are applicable to all penetration installations.

HFEC Inspection Area of the fuselage skin. HFEC inspection includes 2 0 inch detailed visual inspection around periphery of the installation

**INSTRUCTIONS FOR CONTINUED AIRWORTHINESS**

**INSPECTION AREA & METHOD**  
**FWD BULKHEAD PENETRATIONS**



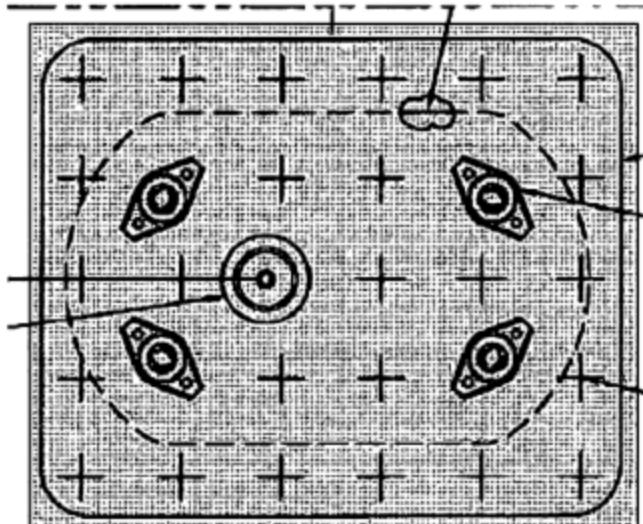
Typical penetration doubler Installation shown.  
Inspections are applicable to all penetration  
installations containing a doubler.

HFEC Inspection Area of the fuselage bulkhead web.  
HFEC inspection includes 2.0 inch detailed visual  
inspection around periphery of the installation.

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

**INSPECTION AREA & METHOD**

**GPS Antenna**



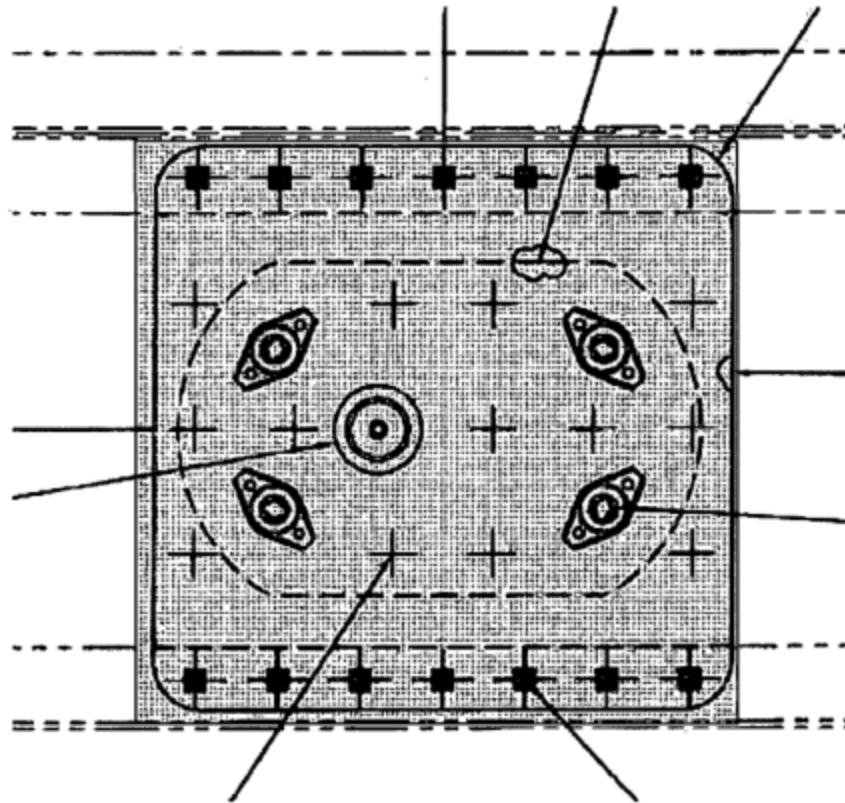
Typical Installation shown. Inspections are applicable to all antenna installations

HFECC Inspection Area of the fuselage skin. HFECC inspection includes 2.0 inch detailed visual inspection around periphery of the installation

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

**INSPECTION AREA & METHOD**

**GPS ANTENNA**



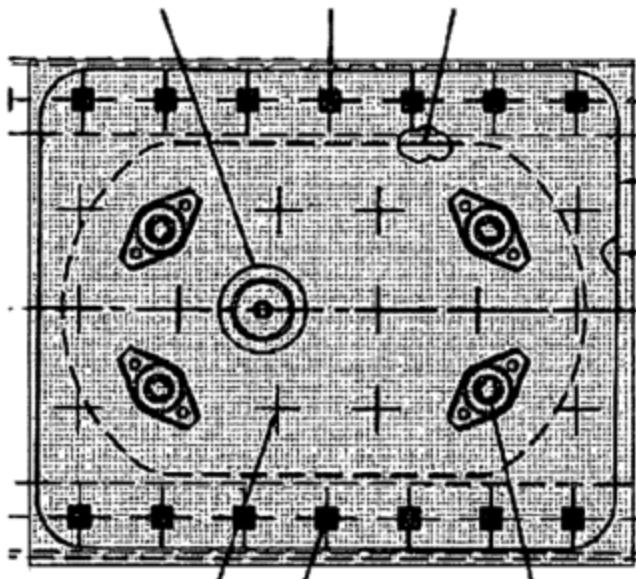
Typical Installation shown. Inspections are applicable to all antenna installations.

HFEC Inspection Area of the fuselage skin. HFEC inspection includes 2.0 inch detailed visual inspection around periphery of the installation

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

**INSPECTION AREA & METHOD**

**GPS ANTENNA**



Typical Installation shown. Inspections are applicable to all antenna installations

HFEC Inspection Area of the fuselage skin. HFEC inspection includes 2.0 inch detailed visual inspection around periphery of the installation

**INSTRUCTIONS FOR CONTINUED AIRWORTHINESS****2.4 Eddy Current Inspection**

For eddy current inspection requirements and procedures, refer to the referenced documents in the table below for the different aircraft types.

The following documents describe the various procedures and requirements for HF eddy current inspection including personnel, instrumentation, equipment setup and standardization, probes, special tools and equipment eddy current standards, and eddy current test procedures required by the Cessna Aircraft Company.

The defects identified by this method are incipient fatigue or corrosion stress cracks in bores, machining radii, shoulders and countersunk holes, and in the actual skin. The direction of propagation defects are perpendicular to in-flight stresses in the case of fatigue stress cracks, or perpendicular to internal stresses for stress corrosion cracks. This method also detects minor corrosion-induced surface damage.

**Table 5 Manual List**

Aircraft	Manual	Document Number
Learjet 60	Non-Destructive Inspection Manual	NDI-2 (Chapter 3)
Textron (Citation) 500, 550, S550, 560	Series 500 Non-Destructive Testing Manual	5056ND (Part 6, Chapter 20)
Textron (Citation) 650	Model 650 Non-Destructive Testing Manual	65ND (Part 6, Chapter 20)
Textron (Beechjet) 400, 400A	Model 400/400A/400XP Maintenance Manual	128-590001-9C29 (Chapter 20-80-03)
Textron (Beechcraft) HS.125 700A, Bae.125 800A, Bae.125 800B, Hawker 800XP	125 Series 1-800, Hawker 750, 800, 800XP, 850XP, and 900XP Non-Destructive Testing Manual	N/A (General Techniques – Part B)
Challengers	Structural Repair Manual	N/A (Chapter 51)
Gulfstream G-1159, G-1159B, G-IV, GV	Structural Repair Manual	N/A (Chapter 51)

FAA APPROVED: \_\_\_\_\_

[REDACTED] Project ODA Administrator

VT DRB Aviation Consultants

A Division of VT San Antonio Aerospace, Inc.

[REDACTED] San Antonio, TX 78216

Date 3/21/2019

## INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

**3 MAINTENANCE PRACTICES****3.1 Removal/Installation**

The following installation manuals contain complete, detailed instruction for the installation and removal of equipment. Installation locations for the equipment vary by aircraft, reference tables 6, 7 and 9 for more details on equipment locations and respective maintenance manuals.

- Equipment Installation Manual for the FreeFlight System Model 1203C GPS/SBAS Sensor, document 86764, Installation Section
- Collins GPS-4000( ) Global Positioning System Installation Manual, document 523-0780545, Installation Section.
- TDR-94/94D ATC/Mode-S Transponder System (-5XX), document 523-0821492, Installation Section

**3.2 Access Location**

Refer to the Aircraft Maintenance Manuals listed in table 9 for additional details.

**Table 6 Access Panel Location**

Location of Access	Access Panels
Nose Avionics Bay	Forward Nose Access Panels (Right & Left)
Cabin EE Racks	N/A
Instrument Panel & Pedestal	N/A
Tail Avionics Bay	Tail Access Panel

**Table 7 Equipment Installation Locations by Aircraft**

Aircraft	Transponder Location	GPS Location
Learjet 60	Nose	Nose (GPS-4000S) Cabin (1203C)
Gulfstream Aerospace 1125 Westwind Astra, Astra SPX, Gulfstream 100, G150	Nose	Nose
Gulfstream 200	Nose	Nose
Gulfstream G-1159, G-1159A, G-1159B, G-IV	RH EE Rack, Cabin	RH EE Rack, Cabin
Gulfstream GV	LH & RH EE Rack, Cabin	LH & RH EE Rack, Cabin
Textron Aviation 500, 550, S550, 560	Nose	Nose

## INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

Aircraft	Transponder Location	GPS Location
Textron Aviation 400/400A	Nose	Nose
Textron Aviation 650	Aft Cabin	Nose (GPS-4000S) Cabin (1203C)
Bombardier CL-600-1A11 CL-600-2A12, CL-600-2B16	Under Floor, Cabin	Under Floor, Cabin
Sabreliner NA-265-65, NA-265-70, NA-265-80	Nose Alternate: FWD EE Shelf	Nose Alternate: FWD EE Shelf
Textron Aviation HS.125 700A/700B, BAe.125 800A/800B, Hawker 750/800XP/850XP/900XP	Nose Alternate: AFT EE Shelf	Under Floor, Cabin Alternate: AFT EE Shelf
Dassault Aviation Falcon 10, Mystere-Falcon 20- C5/D5/E5/F5, Mystere- Falcon 200, Mystere-Falcon 900	Nose	Nose
Dassault Aviation Mystere- Falcon 50	Nose	Nose Alternate: Aft Avionics Shelf

**4 POWER DISTRIBUTION**

## 4.1 Circuit Breakers by Bus

There are multiple options for the installation, the table below shows the possible equipment part numbers that may have changed with this update and the associated electrical load. The following equipment part numbers may have changed with this update.

**Table 8 New and Upgraded Equipment**

Equipment/System	Model/Part Number	Max Load in Amps
TDR-94	622-9352-502	1.79
TDR-94D	622-9210-502	1.79
GPS RECEIVER GPS1203C	84327-50-XXXX	0.179
GPS RECEIVER GPS-4000S	822-2189- 004/005/006/007/010/011/100	0.56

**INSTRUCTIONS FOR CONTINUED AIRWORTHINESS****5 SYSTEM TROUBLESHOOTING**

For troubleshooting information, refer to the following:

Equipment	Circuit Breaker	Document
GPS1203c	ADS-B GPS	Equipment Installation Manual for the FreeFlight System Model 1203C GPS/SBAS Sensor
GPS-4000S	ADS-B GPS	Collins GPS-4000S Global Positioning System Installation Manual, document 523-0780545, Maintenance Section
TDR-94D	TDR	TDR-94/94D ATC/Mode-S Transponder System (-5XX), Document Number 523-0821492, Maintenance Section

**6 INSPECTION REQUIREMENTS****6.1 Scheduled Inspections and Maintenance Checks**

This section of the document contains information regarding Time Limits – Inspection and Maintenance Checks, Overhaul and Replacement Items and Inspection Requirements.

**6.1.1 Time Limits – Inspection and Maintenance Checks****Note:**

Recommended inspection/maintenance intervals do not guarantee that the item will function properly between inspection/maintenance checks. The inspection intervals are based on average usage and environmental conditions. Aircraft operated under extreme conditions, (extreme hot, extreme cold, high humidity, salty air, etc.) may require more frequent maintenance than the intervals specified in this document. The aircraft operator may perform more frequent inspection/maintenance checks based on his usage.

**6.1.2 Visual Inspections**

The equipment necessary for conducting a visual inspection usually consists of a strong flashlight, a mirror with a ball joint, and a 2.5x – 4x magnifying glasses. A 10x magnifying glass is recommended for positive identification of suspected cracks.

**6.1.3 Corrosion Treatment**

Before attempting a close, visual inspection of any selected part or structural area, it should be checked for signs of corrosion. Any corrosion found should be tested to discover its extent and severity. Heavy or severe corrosion requires immediate corrective action. If mild corrosion is present, it should be carefully, but completely, removed before continuing with preparations for the visual inspection.

**6.1.4 Structural Failure Determination.**

The first step in a visual inspection should be an examination of the area for deformed or missing fasteners. These should be identified for subsequent replacement. A close examination for cracks in the surfaces of structural members should then be made with the aid of a flashlight. The majorities of cracks start at, and progress from, points of concentrated stress such as sharp corner cutouts and fastener holes. Cracks may also occur in sheet metal bend radii and similar places that were subjected to severe forming operations during manufacture.

## INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

### 6.1.5 Cleaning of Structural Parts

All parts of areas from which mild corrosion has been removed should be thoroughly cleaned using an approved solvent. (Metal conditioner should not be applied at this time as it may interfere with subsequent dye penetrant inspection.)

### 6.1.6 Cleaning Other Areas

All other areas to be inspected should also be cleaned of any deposits that might hinder the discovery of existing surface flaws. The protective finish need not be removed. The cleaning should be performed using any approved solvent. For cleaning high heat-treat steel parts, or areas in which a high heat steel part is installed, use only the approved solvents.

### 6.1.7 Crack Detection Technique

When looking for surface cracks, the inspector should point his flashlight towards himself and hold it at an angle of  $5^\circ$  -  $45^\circ$  to the surface. (See Figure 6) The extent of the crack may be traced by directing the beam at right angles to the crack. Never direct the light beam at such an angle that the reflected beam shines directly into the eyes. The proper procedure is to keep the eyes above the reflected beam.

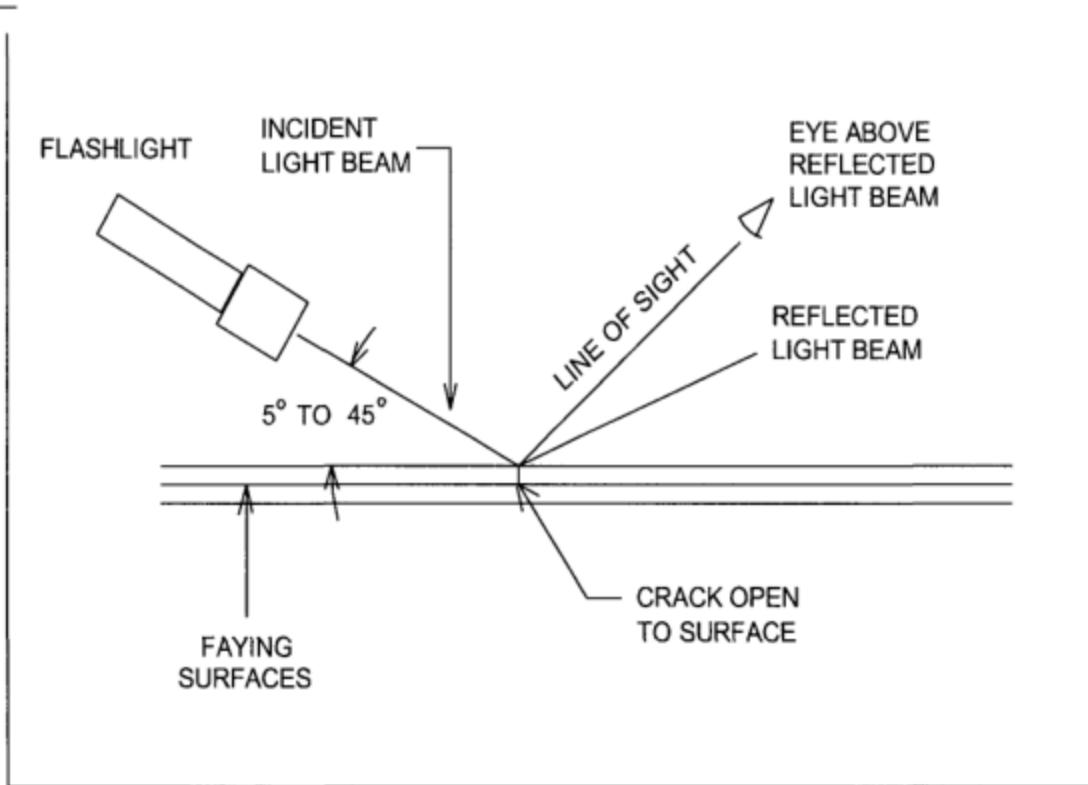


Figure 6 – Inspection for Cracks

### 6.1.8 Verification of cracks

A 10x magnifying glass may be used to confirm the existence or extent of a suspected crack.

## INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

## 6.1.9 Visual Wiring Inspection

Perform visual inspections of the wiring. These visual inspections should be performed as part of the existing applicable inspection cycles, not to exceed 1200 hours. (Reference Tables shown on drawing 584-00-0004 for applicable installations based on aircraft model and subsequent Wire Routing drawing 584-00-0005)

Refer to the pertinent Maintenance Document listed below:

**Table 9 Maintenance Manual by Aircraft**

Aircraft	TCDS Model	Maintenance Manual
Learjet 60	60	P/N MM-103
Bombardier Inc CL-600-1A11	CL-600-1A11	PSP 601-2
Bombardier Inc CL-6002A12, CL-6002B16	CL-600-2B12, CL-600-2B16	CL 604 AMM
Dassault Aviation Falcon 10	Falcon 10	Dassault Falcon 10 Maintenance Manual
Dassault Aviation Mystere-Falcon 20-C5/D5/E5/F5, Mystere Falcon 200	Mystere Falcon 20-C5/D5/E5/F5	Dassault Fan Jet Falcon Maintenance Manual
Dassault Aviation Mystere-Falcon 50	Mystere Falcon 50	Dassault Falcon 50/50EX Maintenance Manual
Dassault Aviation Mystere-Falcon 900	Mystere Falcon 900	Dassault Falcon 900 Maintenance Manual
Galaxy/Gulfstream G100/SPX	G100/Astra SPX	P/N G100-1001-11-1
Galaxy/Gulfstream 1125 Astra	1125 Astra	P/N 25W-1001-11-1
Galaxy/Gulfstream 200, Gulfstream G150	Gulfstream 200, G150	-----
Gulfstream G-1159, G-1159B	G-1159, G-1159B	Gulfstream II Maintenance Manual
Gulfstream G-1159A	G-1159A	Gulfstream III Maintenance Manual
Gulfstream G-IV	G-IV	Gulfstream IV Aircraft Maintenance Manual
Gulfstream GV	GV	Gulfstream V Aircraft Maintenance Manual
Textron (Citation) 500/550/S550	500/550/S550	Model 500 Maintenance Manual

## INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

Textron (Citation) 560	560	Model 560 Maintenance Manual
Textron (Citation) 650	650	Model 650 Maintenance Manual
Textron (Beechjet) 400, 400A	400/400A	P/N 128-590001-9C
Textron (Beechcraft) HS.125 700A, 700B	700A, 700B	AFMS-125-700
Textron (Beechcraft) BAe 125 800A, 800B	800A, 800B	AFMS-800
Textron (Beechcraft) 750	750	AFMS-800XP
Textron (Beechcraft) 800XP	800XP	AFMS-800XP
Textron (Beechcraft) 850XP	850XP	AFMS-800XP
Textron (Beechcraft) 900XP	900XP	AFMS-800XP
Sabreliner Aviation NA-265-70, NA-265-80	NA-265-70, NA-265-80	P/N SE 0405 MM
Sabreliner Aviation NA-265-65	NA-265-65	P/N SE 0303 MM

A "visual inspection" is defined as the process of using the eye, alone or in conjunction with various aids, as the sensing mechanism from which judgments may be made about the condition of a unit to be inspected.

This level of inspection is made from within touching distance unless otherwise specified. A mirror may be necessary to enhance visual access to all exposed surfaces in the inspection area. This level of inspection is made under normally available lighting conditions such as daylight, hangar lighting, flashlight, or droplight. A visual inspection may require the removal or opening of access panels or doors. Stands, ladders, or platforms may be required to gain proximity to the area being checked.

The inspection criteria provided below is intended as general guidance. Conduct special inspection as deemed appropriate by each operator based on aircraft experience. Any discrepancies found should be repaired.

## 6.2 Wiring

The inspection criteria provided below is intended as general guidance. Special inspection should be conducted as deemed appropriate by each operator. Any discrepancies found should be repaired.

### a. Wire/Wire Bundle – Inspect for:

- Aluminum drill shavings, lint or dust on or inside wire bundles. Aluminum shavings can, with vibration or other motion, cut through wire insulation and provide a conductive path between wires in a bundle or to adjacent grounded structure. Lint and dust can accumulate on wire bundles and may, if subjected to overheated wires, ignite or possibly feed an electrical fire.

**INSTRUCTIONS FOR CONTINUED AIRWORTHINESS**

---

- Wire insulation that has become brittle. Wire may be more susceptible to cracking. Damaged insulation and/or exposed conductor material of wires. Cracked, chafed and cut insulation can provide a conductive path between wires in a bundle or to adjacent grounded structure.
- Pinched wires can occur at wire clamps, connector backshell clamps, excessively tight cable ties, etc.
- Inappropriate/improper wiring repairs such as the use of duct tape, electrical tape, poor crimp splices, etc.
- Wire insulation damage due to fluid leaks (i.e. fuel, hydraulic fluid, etc.)
- Separation of electrical wires from hydraulic, fuel and oxygen lines. Ensure a minimum of 0.5-inch separation and any wiring routed within 2.0 inches must be clamped to provide separation.
- Small bend radii of wire. Wiring subjected to excessively tight bend radii may sustain damage to the wire insulation.
- Sagging wire bundles. Ensure bundles are not allowed to droop onto structure, components, cables, hoses, other bundles, etc.
- Wire attached to the outside of a wire bundle using plastic ties instead of being installed under existing wire clamps. Can cause chafed and cut wire insulation.
- Unsupported wires running into conduit or wire supported in such a way as to pull the wire against the side of the conduit entrance instead of into the center. Can cause chafed and cut wire insulation.
- Proximity to high temperature equipment. Wiring shall be kept separate from high temperature equipment, such as resistors, exhaust stacks, heating ducts and deicers, to prevent wire insulation deterioration.
- Wires with different insulation types should not be routed together, where possible. Certain wire insulations may be easily abraded by other types of wire insulation.

b. Wire Harness Clamps – Inspect for:

- Condition. Ensure any protective material on the wire clamp (i.e. rubber, plastic, etc.) is in serviceable and functional condition. Clamps should be secured to structure and wire bundle should be snug in clamp.
- Ensure clamps are not installed over splices.

c. Connectors – Inspect for:

- Condition. Make sure connectors are free of corrosion, moisture, dust and metal shavings. Check for worn environmental seals, loose contact tension, proper contact locking, missing seal plugs, missing dummy contacts, etc. Drip loops should be maintained when connectors are below the level of the harness and tight bends at connectors should be avoided or corrected.

d. Backshells – Inspect for:

- Condition: Wires may break at connector backshells due to excessive flexing, lack of strain relief or improper buildup. Loss of backshell bonding may also occur due to these and other factors.

## **INSTRUCTIONS FOR CONTINUED AIRWORTHINESS**

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**e. Electrical Conduits and Sleeving – Inspect for:**

- Susceptibility to water/moisture entrance: Conduits should not be susceptible to the entrance of moisture. If moisture going into conduits and sleeving is unavoidable, provisions should be made in the lower portions of the conduit to drain any moisture and prevent accumulation.
- Condition: Damage to sleeving and conduits, if not corrected, will often lead to wire damage. Make sure components are free from corrosion, moisture, dust, and metal shavings. Check that conduit is secured to structure.

**f. Terminations – Inspect for:**

- Condition: Terminal lugs and splices are susceptible to mechanical damage, corrosion, heat damage and chemical contamination. The buildup and nut torque on wire lugs is critical to their performance.

**g. Grounding Points – Inspect for:**

- Condition: Grounding points should be checked for security (i.e. tightness) condition of termination, cleanliness and corrosion. Any grounding points that have corroded or have lost their protective coating should be repaired and checked for proper resistance.

### **CAUTION**

Use care when disturbing or removing wire harness/bundles to minimize the possibility of wire insulation damage or cracking. Care must be especially used in areas with severe moisture problems. During any repair, modification, or installation work in close proximity to wire bundles, mounts, connectors and systems, ensure that these areas are protected from and/or cleaned of metal shavings and debris.

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**INSTRUCTIONS FOR CONTINUED AIRWORTHINESS**

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**Appendix A – List of Applicable Publications**

**NOTE:** The latest released revision of the publications listed in the LOAP constitutes the required information essential for continued airworthiness for the aircraft.

Document Title	Document Number
Airplane Flight Manual Supplement	584-00-0046
Master Data List (includes wiring diagrams, equipment installations and ground test)	584-00-0001
TDR-94/94D ATC/Mode-S Transponder System (-5XX) Install Manual	523-0821492
GPS-4000( ) Global Positioning System Installation Manual	523-0780545
Equipment Installation Manual for the FreeFlight System Model 1203C GPS/SBAS Sensor	86764

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

## **Appendix B – Special Tools and Equipment**

Transponders – Aeroflex IFR-6000 or equivalent test set.

GPS – JCAir 429 or equivalent 429 Bus Reader

GPS - Oscilloscope

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

## **Appendix C – Discrepancy Reporting Form**

This form to be used by aircraft owner operators and modification centers to report discrepancies with modifications and repairs approved by the ODA.

**DATE DISCREPANCY DISCOVERED:** *Self explanatory.*

**DISCREPANCY:** *Describe the discrepancy in detail.*

**RECOMMENDED CORRECTIVE ACTION:**

*Describe what actions you recommend taking to correct the discrepancy.*

**REPORTED BY:** *Self explanatory.*

**COMPANY NAME:** \_\_\_\_\_

**PERSON TO CONTACT:** \_\_\_\_\_  
**NUMBER:** \_\_\_\_\_

**PHONE**

**TITLE:** \_\_\_\_\_

<b>Signature:</b>	<i>Self explanatory.</i>	<b>Date:</b>	<i>Self explanatory.</i>
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Please submit the completed form to the following contact:

VT DRB ODA Unit  
[REDACTED] San Antonio, TX 78216  
USA  
Phone: [REDACTED]  
Email: [REDACTED] @ [REDACTED]

EFTA00011726



US Department  
of Transportation  
Federal Aviation  
Administration

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

OMB No. 2120-0020  
Exp. 5/31/2018

Electronic Tracking Number

For FAA Use Only

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

1. Aircraft	Nationality and Registration Mark USA/N493LX	Serial No. RK-244
	Make Raytheon Aircraft Company	Model 400A
2. Owner	Name (As shown on registration certificate) Flight Options	Address (As shown on registration certificate) Address _____
		City Richmond Heights
	Zip 44143-1453	Country USA

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	Raytheon Aircraft Company	(As described in Item 1 above)	RK-244
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name Nextant Aerospace	Address [REDACTED]	U. S. Certificated Mechanic	Manufacturer
Address [REDACTED]	City Cleveland	Foreign Certificated Mechanic	C. Certificate No.
City Cleveland	State OH	<input checked="" type="checkbox"/> Certificated Repair Station	CRS# 25NR667B
Zip 44143-1453	Country USA	<input type="checkbox"/> Certificated Maintenance Organization	

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

Extended range fuel per 14 CFR Part 43 App. B	<input type="checkbox"/>	Signature/Date of Authorized Individual	[REDACTED]
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12-29-2013  
04-01-2019

7. Approval for

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Rejected					
BY	FAA Flt. Standards Inspector		Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	<input checked="" type="checkbox"/>	Repair Station	Inspection Authorization	Other (Specify)
Certificate or Designation No. CRS# 25NR667B		Signature/Date of Authorized Individual		[REDACTED]	

12-29-2013  
04-01-2019

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.)

N493LX

12/29/2013

Nationality and Registration Mark

Date

This 337 is amended 01APR2019 to correct a Typo in block 8.

Installed New Pitot Probes in accordance with STC ST10959SC. Nextant Master Drawing List Document 373-00-0001 Rev CC EO24-11.

Removed Pitot Probes Part Number PH1100-MU-R-1

Removed Pitot Probes Part Number PH1100-MU-L-1

Installed Pitot Probes Part Number PH1100-MUR-EN Serial Number 1975803

Installed Pitot Probes Part Number PH1100-MUL-EN Serial Number 1728401

Leak Check carried out Beechcraft Aircraft Maintenance Manual Chapter 34-12-00-201

ICA

Continue with Normal Hawker Beech Maintenance Practices for this area.

END

Additional Sheets Are Attached

**STANDARD AIRWORTHINESS CERTIFICATE**

1 NATIONALITY AND REGISTRATION MARKS	2 MANUFACTURER AND MODEL	3 AIRCRAFT SERIAL NUMBER	4 CATEGORY
N188TS	Raytheon Aircraft Company 400A	RK-244	Transport

**5 AUTHORITY AND BASIS FOR ISSUANCE**

This airworthiness certificate is issued pursuant to 49 U.S.C. § 44704 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein.

Exceptions:

-None-

**6 TERMS AND CONDITIONS**

Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the FAA, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.

DATE OF ISSUANCE	FAA REPRESENTATIVE	DESIGNATION NUMBER
03/06/2014		GL-25

Any alteration, reproduction, or distribution of this certificate may be performed by the FAA only in accordance with a process not exceeding 3 years or less.

THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.

A Form 8100-2 (04-11) Supersedes Previous Edition

**COPY**  
FROM AIRCRAFT

копы

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

1 NATIONALITY AND REGISTRATION MARKS  188TS	2 MANUFACTURER AND MODEL  Raytheon Aircraft Company 400A	3 AIRCRAFT SERIAL NUMBER  RK-244	4 CATEGORY  Transport
--	---	---	-----------------------------

5 AUTHORITY AND BASIS FOR ISSUANCE

This airworthiness certificate is issued pursuant to 49 U.S.C. § 44704 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein.

Exceptions:

-None-

AFS-750 COPY

6 TERMS AND CONDITIONS

Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the FAA, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.

DATE OF ISSUANCE  R3/06/2014	FAA REPRESENTATIVE  [Redacted]	DESIGNATION NUMBER  GL-25
------------------------------------	--------------------------------------	---------------------------------

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.





U.S. Department  
of Transportation

**Federal Aviation  
Administration**

Cleveland Flight Standards District Office

North Olmsted, Ohio 44070

October 9, 2018

Aircraft Registration Branch  
AFS-750

To whom it may concern:

During review of AFS-750 records it was found that a discrepancy existed of the Airworthiness Certificate for N188TS, Make: Raytheon Aircraft Company, Model: 400A, Serial Number RK-244, it was noted that the Airworthiness Certificate registration number did not show the required Nationality letter "N". During inspection of the aircraft it was found that the original Airworthiness Certificate did in fact have the required Nationality letter. Made a copy of the original Airworthiness Certificate and forwarded to AFS-750.

If you have any questions in this matter, please contact me at [REDACTED].

Sincerely

FAA PMI CLE FSDO

EFTA00011733





US Department  
of Transportation  
Federal Aviation  
Administration

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

OMB No. 2120-0020 | Electronic Tracking Number  
Exp. 5/31/2018

For FAA Use Only

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

1. Aircraft	Nationality and Registration Mark USA / N188TS	Serial No. RK-244	
	Make RAYTHEON AIRCRAFT COMPANY	Model 400A	Series
2. Owner	Name (As shown on registration certificate) THORAIR LLC	Address (As shown on registration certificate)	
		Address [REDACTED]	City SANDUSKY State OHIO
		Zip 44871-2218	Country UNITED STATES

**3. For FAA Use Only**

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	RAYTHEON AIRCRAFT COMPANY	(As described in Item 1 above)	RK-244
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

**6. Conformity Statement**

A. Agency's Name and Address		B. Kind of Agency		
Name	Nextant Aerospace		U. S. Certificated Mechanic	Manufacturer
Address	26460 Curtis Wright Parkway		Foreign Certificated Mechanic	C. Certificate No.
City	Cleveland	State	Ohio	
Zip	44143	Country	United States	CRS# WC7R346J

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

Extended range fuel per 14 CFR Part 43 App. B	<input type="checkbox"/>	<input type="checkbox"/>	10/06/2017
---	--------------------------	--------------------------	------------

**7. Approval for Return to Service**

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

BY	<input type="checkbox"/> FAA Flt. Standards Inspector	<input type="checkbox"/> Manufacturer	<input type="checkbox"/> Maintenance Organization	<input type="checkbox"/> Persons Approved by Canadian Department of Transport
	<input checked="" type="checkbox"/> FAA Designee	<input checked="" type="checkbox"/> Repair Station	<input type="checkbox"/> Inspection Authorization	Other (Specify)
Certificate or Designation No. CRS# WC7R346J				10/06/2017

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.)

USA / N188TS

10/06/2017

Nationality and Registration Mark

Date

**STC# ST02371LA Winglet Option Installation**

Installed Nextant Aerospace Winglets IAW Nextant Aerospace STC# ST2371LA amended date 3/10/2017, Master Data List# MDL-NXT-001 Rev J, dated 2/14/2017, and minor deviations IAW EO# NT-EO-0817-09 Rev A and NT-EO-1017-09 Rev IR.

Removed Equipment

Item	Part Number	Serial Number
Left Wingtip Assembly	45A10552-001	
Left Strobe/Position Light Assembly	45A88750-22	
Wing Tip Lens	8888-170000-01	
Right Wingtp Assembly	45A10552-002	
Right Strobe/Position Light Assembly	45A88750-22	
Wing Tip Lens	8888-170000-02	
Tail Strobe Light	4588315-121	
Tail Position Light	45A88754-11	
Strobe Power Supply	01-790080-00	00575

Installed Equipment

Item	Part Number	Serial Number
Left Winglet Assembly	NEXT-SA15250LA57-10001	S-NEXT-0001
Right Winglet Assembly	NEXT-SA15250LA57-10002	S-NEXT-0001
Left Winglet Light Assembly	87-03916-001	00214
Right Winglet Light Assembly	87-03917-001	00216
Tail Strobe Cover Plate	NX0047-3340-0101-001	
Tail Position Cover Plate	NX0047-3340-0102-001	

ICA

Follow the maintenance inspection practices in the Nextant Aerospace Instructions for Continued Airworthiness Document No. NX0047-ICA0-0101 Rev. A, dated 6/20/2016 or later FAA approved revisions.

AFMS

FAA Approved Airplane Flight Manual Supplement Document No. NX0047-AFMS-0101 Rev. IR, dated 3/10-2017 or later FAA approved revisions have been added to the Airplane Flight Manual

Weight and Balance

Reference Weight and Balance Report dated 10/06/2017

END

Additional Sheets Are Attached

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

Number ST02371LA

This Certificate issued to **Nextant Aerospace, LLC**

[REDACTED]  
Richmond Heights, Ohio 44143

certifies that the change in the type design for the following product with the limitations and conditions  
hereinafter specified hereon meets the airworthiness requirements of Part 25\* of the Federal Aviation  
Regulations. \*Certification basis is set forth on TCDS A16SW and continuation sheets 3 and 4.

Original Product Type Certificate Number: A16SW

Make: Beechcraft Corporation

Model: 400A

*Description of Type Design Change:* Alteration of a Beechcraft Corporation 400A airplane, to replace Pratt & Whitney JT15D-5 series engines with Williams International FJ44-3AP engines (TCDS E3GL) with Full Authority Digital Engine Control (FADEC) and associated systems (Config. A) and (or) the installation of Nextant Winglets (Config. B), in accordance with Nextant Aerospace Master Drawing List No.: MDL-NXT-001, Revision IR dated 8/22/2011, or later FAA approved revisions and the appropriate FAA approved Airplane Flight Manual Supplement(s) for the applicable installed configuration(s):

Config. A: NXT1-AFMS, Rev IR, dated September 15, 2011 or later FAA approved revisions

Config. B: NX0047-AFMS-0101, Rev IR, dated March 10, 2017 or later FAA approved revisions

*Limitations and Conditions.* The installation should not be incorporated in any aircraft unless it is determined that the interrelationship between this installation and any previously approved configuration will not introduce any adverse effect upon the airworthiness of that aircraft. The approval of this modification applies to the above-noted airplane models only. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

(CONTINUED on page 3)

*This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.*

Date of application: March 24, 2008

Date revised:

Date of issuance: September 27, 2011

Date amended: March 10, 2017



*By direction of the Administrator*

[REDACTED]  
(Signature)

Manager, Propulsion Branch  
Los Angeles Aircraft Certification Office  
(Title)

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



United States Of America  
Department of Transportation - Federal Aviation Administration

# Supplemental Type Certificate

(Continuation Sheet)

Number ST02371LA

*Limitations and Conditions (continued)*

- Nextant Aerospace, LLC, "Installation of Rockwell Collins Pro Line 21," Amended STC ST10959SC, dated September 26, 2011 or later FAA approved revisions is required as part of this alteration.
- The new Vmca and Vmcg values are 94 KIAS and 93 KIAS respectively.
- The new engine minimum rated thrust is 3,031 lb at sea level, flat rated to an ambient temperature of 77°F.
- Approved engine fuels are:

<u>Grade</u>	<u>Specification</u>
Jet A	ASTM-D 1655

Jet A-1      ASTM-D 1655

- FAA accepted revisions of the Nextant Aerospace, LLC Instructions for Continued Airworthiness document must be made available to the operator with the installation of the STC configuration(s).
  - Config. A: NXT1-ICA, Revision IR, or later FAA accepted revisions.
  - Config. B: NX0047-ICA0-0101, Revision A, or later FAA accepted revisions.

*Certification Basis*

The certification basis for this modification is as follows:

The original certification basis for the Hawker Beechcraft Model 400A airplanes identified on TCDS A16SW, Revision 26, dated March 17, 2010:

Part 25 of the Federal Aviation Regulations effective February 1, 1965, as amended by 25-1 through 25-40, plus §§ 25.1335, 25.1351(d), 25.1353(c)(5), and 25.1447 of Amendment 25-41; §§ 25.29, 25.255, and 25.1353(c)(6) of Amendment 25-42; and §§ 25.361(b) and 25.1329(h) of Amendment 25-46. Part 36 of the Federal Aviation Regulations effective December 1, 1969, as amended by 36-1 through 36-17; SFAR 27 effective February 1, 1974, as amended by 27-1 through 27-5; and Special Conditions No. 25-ANM-32 dated February 22, 1990 (High Altitude Operation at 45,000 feet), and Special Conditions No. 25-ANM-33 dated June 18, 1990 (Lightning and Radio Frequency Energy Protection). (See NOTE 12)

Equivalent Safety Items

- (1) Out-of-trim characteristics FAR 25.255
- (2) Pilot compartment view FAR 25.773(b)(2)
- (3) Passenger compartment door FAR 25.813(e)
- (4) Emergency exit marking FAR 25.811(d)(1) and 25.811(d)(2)

Application for amended Type Certificate dated February 18, 1988.

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



# Supplemental Type Certificate

(Continuation Sheet)

Number ST02371LA

*Certification Basis (continued)*

Regulation at a later amendments for components and areas affected by the change (Ref. FAA approved Compliance Check List):

**Subpart A - General:** §§ 25.2(25-99)

**Subpart B - Flight:** §§ 25.207(25-121), 25.255(25-42)

**Subpart C - Structure:** §§ 25.571 (25-96)

**Subpart D - Design and Construction:** §§ 25.603(25-46), 25.605(25-46), 25.611(25-123), 25.613(25-112), 25.625(25-72), 25.832(25-72), 25.863(25-46), 25.869(25-123),

**Subpart E - Powerplant:** §§ 25.901(25-46), 25.903(25-100), 25.951(25-73), 25.961(25-57), 25.981(25-125), 25.994(25-57), 25.997(25-57), 25.1013(25-72), 25.1019(25-57), 25.1021(25.57), 25.1043(25-42), 25.1045(25-57), 25.1091(25-100), 25.1093(25-72), 25.1103(25-46), 25.1141(25-115), 25.1143(25-57), 25.1163(25-57), 25.1165(25-72), 25.1181(25-115), 25.1183(25-101), 25.1185(25-94), 25.1189(25-57), 25.1195(25-46), 25.1203(25-123), 25.1207(25-46).

**Subpart F - Equipment:** §§ 25.1301(25-123), 25.1305(25-115), 25.1307(25-72), 25.1309(25-123), 25.1316(25-80), 25.1317(25-122), 25.1321(25-41), 25.1331(25-41), 25.1351(25-72), 25.1353(25-123), 25.1357(25-123), 25.1381(25-72), 25.1431(25-113), 25.1438(25-41),

**Subpart G - Operating Limitations and Information:** §§ 25.1501(25-42), 25.1521(25-72), 25.1527(25-105), 25.1529(25-54), 25.1543(25-72), 25.49(25-40), 25.1551(25-72), 25.1557(25-72), 25.1581(25-72), 25.1583(25-105).

**Subpart H - Electrical Wiring Interconnection Systems (EWIS):** §§ 25.1701(25-123), 25.1703(25-123), 25.1705(25-123), 25.1707(25-123), 25.1709(25-123), 25.1711(25-123), 25.1713(25-123), 25.1715(25-123), 25.1717(25-123), 25.1719(25-123), 25.1721(25-123), 25.1723(25-123), 25.1725(25-123), 25.1727(25-123), 25.1729(25-123), 25.1731(25-123), 25.1733(25-123).

**14 CFR Part 34(34-3):** 34.11

**14 CFR Part 36 (36-28):** 36.1-36.7, 36.101-36.105, 36.1501, 36.1581.

The following Nextant Aerospace Continued Airworthiness Supplements are applicable to airplanes modified in accordance with this STC:

- Master Minimum Equipment List document No. MMEL Rev. 8, dated 02/21/2011 or later FAA approved revisions.
- EWIS (Electrical Wiring Interconnection Systems) Inspection Procedure/Report No. NXT1-EA-007 Rev A dated 8/24/11 or later FAA approved revisions.

--END--

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





U.S. Department of  
Transportation  
Federal Aviation  
Administration

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

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

Electronic Tracking Number

For FAA Use Only

**INSTRUCTIONS:** Print or type all entries. See 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	Nationality and Registration Mark <b>N493LX</b>		Serial No. <b>RK 244</b>
	Make <b>Raytheon Aircraft Company</b>	Model <b>400A</b>	Series
2. Owner	Name (As shown on registration certificate) <b>Flight Options .LLC</b>		Address (As shown on registration certificate)
	Address		
	City <b>Richmond Heights</b>	State. OH	
Zip <b>44143-1453</b>	Country <b>USA</b>		

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial Number
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency
Name <b>Constant Aviation</b>	Address [REDACTED]	<input type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Manufacturer
City <b>Cleveland</b>	State. OH	<input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificate No.
Zip <b>44143-1453</b>	Country <b>USA</b>	<input checked="" type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Certificated Maintenance Organization <b>CRS # WC7R346J</b>

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

Extended range fuel per 14 CFR Part 43 App. B	<input type="checkbox"/>	Signature/Date of Authorized Individual	[REDACTED]	09/Sep/2017
---	--------------------------	---	------------	-------------

7. Approval for Return to Service

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

BY	FAA Fit Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport
	FAA Designee	X Repair Station	Inspection Authorization	Other (Specify)
Certificate or Designation No. <b>WC7R346J</b>		Signature/Date of Authorized Individual		[REDACTED]
				09/Sep/2017

**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.)

N493LX

12/Sep/2017

Nationality and Registration Mark

Date

**This is a revised FAA 337 to correct the Serial Numbers of the Engines that were installed by Nextant Aerospace CRS # 25NR667B on FAA 337 Dated 05/30/2013**

Nextant Aerospace Completed STC # ST02371LA

Removed Pratt and Whitney JT15D-5 Series Engines.

Installed the Williams International FJ44-3AP Engines with Full FADEC and Associated Systems in accordance with Nextant Aerospace MDL -NXT-001 Rev IR Dated 08/22/2011 or later FAA approved revisions, and FAA Approved AFM Supplement NXT-1-AFMS Rev IR dated 9/15/2011 of later FAA Approved revisions.

Installed Left Engine Part Number. 111000-202 Serial No. 252767

Installed Right Engine Part Number 111000-202 Serial No. 252768

ICA

AFM Supplement was installed on Aircraft.

Nextant Aerospace Instructions for Continued Airworthiness Document NXT-ICA Rev IR or later FAA accepted revisions are included in the Aircraft Maintenance Records.

Carried out Engine Ground Runs and System OPS checks IAW Ground Test Plan 373-00-0024 Rev F.

.....End.....

Additional Sheets Are Attached

## UNITED STATES OF AMERICA

## DEPARTMENT OF TRANSPORTATION-FEDERAL AVIATION ADMINISTRATION

## STANDARD AIRWORTHINESS CERTIFICATE

1 NATIONALITY AND REGISTRATION MARKS  188TS	2 MANUFACTURER AND MODEL  Raytheon Aircraft Company 400A	3 AIRCRAFT SERIAL NUMBER  RK-244	4 CATEGORY  Transport
--	---	---	-----------------------------

## 5 AUTHORITY AND BASIS FOR ISSUANCE

This airworthiness certificate is issued pursuant to 49 U.S.C. § 44704 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein.

Exceptions:

-None-

## 6 TERMS AND CONDITIONS

Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the FAA, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.

DATE OF ISSUANCE  R3/06/2014	FAA REPRESENTATIVE  [Redacted]	DESIGNATION NUMBER  GL-25
------------------------------------	--------------------------------------	---------------------------------

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.



UNITED STATES OF AMERICA

DEPARTMENT OF TRANSPORTATION-FEDERAL AVIATION ADMINISTRATION

## STANDARD AIRWORTHINESS CERTIFICATE

1 NATIONALITY AND REGISTRATION MARKS N493LX	2 MANUFACTURER AND MODEL Raytheon Aircraft Company 400A	3 AIRCRAFT SERIAL NUMBER RK-244	4 CATEGORY Transport
---	---	---------------------------------------	-------------------------

## 5 AUTHORITY AND BASIS FOR ISSUANCE

This airworthiness certificate is issued pursuant to 49 U.S.C. § 44704 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein.

Exceptions:

\*None\*

## 6 TERMS AND CONDITIONS

Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the FAA, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and [REDACTED] compliance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft [REDACTED]

DATE OF ISSUANCE 03/06/2014	[REDACTED]	DESIGNATION NUMBER DART833943G
--------------------------------	------------	-----------------------------------

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.



4/10/2014

Flight Standards District Office

Great Northern Tech Bldg. II

[REDACTED]  
North Olmstead, Ohio 44070

Cleveland Flight Standards District Office:

ThorAir LLC. would like to request a new airworthiness certificate for Serial number RK-244, Raytheon Aircraft Company 400A. The reason for requiring an airworthiness certificate change is a new registration number is being placed on the aircraft. Included with this letter is AC Forum 8050-64 issue date Apr 03, 2014 showing the change in registration number from N493LX to N188TS.

Signature of Owner:

[REDACTED]

Title of Owner:

President of ThorSport, Inc., ThorAir, LLC. It's Member

EFTA00011749



## FAA FORM 8130-6, APPLICATION FOR U.S. AIRWORTHINESS CERTIFICATE

Form Approved O.M.B. No. 2120-0018  
Expiration Date 02/28/2013

 U.S. Department of Transportation Federal Aviation Administration		<b>APPLICATION FOR U.S. AIRWORTHINESS CERTIFICATE</b>				<b>INSTRUCTIONS</b> - 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 attachment. For special flight permits complete Sections II, VI, and VII as applicable.										
		1. REGISTRATION MARK N493LX		2. AIRCRAFT BUILDER'S NAME (Make) Raytheon Aircraft Co								3. AIRCRAFT MODEL DESIGNATION 400A		4. YR. MFR. 1999		FAA CODING
I. AIRCRAFT DESCRIPTION	5. AIRCRAFT SERIAL NO. RK-244		6. ENGINE BUILDER'S NAME (Make) Williams International		7. ENGINE MODEL DESIGNATION FJ44-3AP		10. PROPELLER MODEL DESIGNATION N/A		11. AIRCRAFT IS (Check if applicable) N/A		IMPORT					
	APPLICATION IS HEREBY MADE FOR: (Check applicable items)															
	A 1 <input checked="" type="checkbox"/> STANDARD AIRWORTHINESS CERTIFICATE (Indicate category)		NOMAL		UTILITY		ACROSTIC		<input checked="" type="checkbox"/> TRANSPORT		COMMUTER		BALLOON			
	B <input type="checkbox"/> SPECIAL AIRWORTHINESS CERTIFICATE (Check appropriate items)															
	7 <input type="checkbox"/> PRIMARY															
	9 <input type="checkbox"/> LIGHT-SPORT (Indicate class)		Airplane		Power-Parachute		Weight-Shift-Control		Glider		Lighter than Air					
	2 <input type="checkbox"/> LIMITED															
	5 <input type="checkbox"/> PROVISIONAL (Indicate class)		1 <input type="checkbox"/> CLASS I													
			2 <input type="checkbox"/> CLASS II													
	3 <input type="checkbox"/> RESTRICTED (Indicate operation(s) to be conducted)		1 <input type="checkbox"/> AGRICULTURE AND PEST CONTROL		2 <input type="checkbox"/> AERIAL SURVEY		3 <input type="checkbox"/> AERIAL ADVERTISING									
		4 <input type="checkbox"/> FOREST (Wildlife conservation)		5 <input type="checkbox"/> PATROLLING		6 <input type="checkbox"/> WEATHER CONTROL										
		0 <input type="checkbox"/> OTHER (Specify)														
4 <input type="checkbox"/> EXPERIMENTAL (Indicate operation(s) to be conducted)		1 <input type="checkbox"/> RESEARCH AND DEVELOPMENT		2 <input type="checkbox"/> AMATEUR BUILT		3 <input type="checkbox"/> EXHIBITION										
		4 <input type="checkbox"/> AIR RACING		5 <input type="checkbox"/> CREW TRAINING		6 <input type="checkbox"/> MARKET SURVEY										
		0 <input type="checkbox"/> TO SHOW COMPLIANCE WITH THE CFR		7 <input type="checkbox"/> OPERATING (Primary Category) KIT BUILT AIRCRAFT												
8 <input type="checkbox"/> SPECIAL FLIGHT PERMIT (Indicate operation to be conducted, then complete Section VI or VII as applicable on reverse side)		8A <input type="checkbox"/> Existing aircraft without an airworthiness certificate & do not meet § 103.1														
		8B <input type="checkbox"/> Operating Light-Sport Kit-built														
		8C <input type="checkbox"/> Operating light-sport previously issued special light-sport category airworthiness certificate under § 21.190														
9 <input type="checkbox"/> UNMANNED AIRCRAFT		9A <input type="checkbox"/> RESEARCH AND DEVELOPMENT		9C <input type="checkbox"/> CREW TRAINING												
		9B <input type="checkbox"/> MARKET SURVEY														
C 6 <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) <span style="float: right;">IF DEALER, CHECK HERE <input type="checkbox"/></span> NAME: ThorAir LLC ADDRESS: [REDACTED], Sandusky, OH 44871 B. AIRCRAFT CERTIFICATION BASIS (Check applicable blocks and complete items as indicated)																
✓ AIRCRAFT SPECIFICATION OR TYPE CERTIFICATE DATA SHEET (Give No. and Revision No.) A16SW Rev 28						✓ AIRWORTHINESS DIRECTIVES (Check if all applicable ADs are complied with and give the number of the last AD SUPPLEMENT available in the biweekly series as of the date of application) Bi Weekly 2014 2/10/2014 - 02/23/2014										
AIRCRAFT LISTING (Give page number(s)) N/A						✓ SUPPLEMENTAL TYPE CERTIFICATE (List number of each STC incorporated) See Attached Sheet										
C. AIRCRAFT OPERATION AND MAINTENANCE RECORDS																
✓ CHECK IF RECORDS IN COMPLIANCE WITH 14 CFR section 91.417			TOTAL AIRFRAME HOURS 8616.1 TTA				3 <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 registered owner (or his agent) of the aircraft described above, that the aircraft is registered with the Federal Aviation Administration in accordance with Title 49 of the United States Code 44101 et seq. 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 03/06/2014			NAME AND TITLE (Print or type) Anton Koprivnik Agent				SIGNATURE [REDACTED]									
A. THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY: (Complete the section only if 14 CFR part 21, 183(e) applies)																
2 <input type="checkbox"/> 14 CFR part 121 CERTIFICATE HOLDER (Give Certificate No.)			3 <input type="checkbox"/> CERTIFICATED MECHANIC (Give Certificate No.)		6 <input type="checkbox"/> CERTIFICATED REPAIR STATION (Give Certificate No.)											
5 <input type="checkbox"/> AIRCRAFT MANUFACTURER (Give name or firm)																
DATE [REDACTED]			TITLE [REDACTED]				SIGNATURE [REDACTED]									
(Check ALL applicable block items A and B) A. I find that the aircraft described in Section I or VII meets requirements for																
A. I find that the aircraft described in Section I or VII meets requirements for			4 <input type="checkbox"/> THE CERTIFICATE REQUESTED		4 <input type="checkbox"/> AMENDMENT OR MODIFICATION OF CURRENT AIRWORTHINESS CERTIFICATE											
B. Inspection for a special flight permit under Section VII was conducted by:																
DATE 03/06/2014			4 <input type="checkbox"/> FAA INSPECTOR		4 <input type="checkbox"/> FAA DESIGNEE		CERTIFICATE HOLDER UNDER 14 CFR 65, 14 CFR part 121 CR-125, 14 CFR part 145									
MIDO/FSDO OFFICE GL-25			4 <input type="checkbox"/> FAA INSPECTOR'S SIGNATURE AND NAME DART833943													

RECEIVED

MAR 10 2014

CLE - GL2E

EFTA00011751

VI. PRODUCTION FLIGHT TESTING	A. MANUFACTURER					
	NAME		ADDRESS			
	B. PRODUCTION BASIS (Check applicable item)					
	<input type="checkbox"/>	PRODUCTION CERTIFICATE (Give production certificate number)				
	<input type="checkbox"/>	TYPE CERTIFICATE				
	<input type="checkbox"/>	OTHER:				
	C. GIVE QUANTITY OF CERTIFICATES REQUIRED FOR OPERATING NEEDS					
	DATE OF APPLICATION	NAME AND TITLE (Print or type)			SIGNATURE	
	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"/>	FLIGHT ENGINEER	
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 Title 49 of the United States Code 44101 <del>et seq.</del> and applicable Federal Aviation Regulations; and that the aircraft has been inspected and is safe for the flight described.						
DATE	NAME AND TITLE (Print or type)			SIGNATURE		
✓ A. Operating Limitations and Markings in Compliance With 14 CFR Section 91.9, As Applicable ✓ B. Current Operating Limitations Attached ✓ C. Data, Drawings, Photographs, etc. (Attach when required) ✓ D. Current Weight and Balance Information Available in Aircraft ✓ E. Major Repair and Alteration, FAA Form 337 (Attach when required) ✓ F. This inspection Recorded in Aircraft Records						
G. Statement of Conformity, FAA Form 8130-9 (Attach when required) ✓ H. Foreign Airworthiness Certification for Import Aircraft (Attach when required) ✓ I. Previous Airworthiness Certificate Issued in Accordance With 14 CFR Section 21.191 (f) CAR _____ (Original attached) ✓ J. Current Airworthiness Certificate Issued in Accordance With 14 CFR Section 21.183 (d) (Copy attached) K. Light-Sport Aircraft Statement of Compliance, FAA Form 8130-15 (Attach when required)						

UNITED STATES OF AMERICA

DEPARTMENT OF TRANSPORTATION-FEDERAL AVIATION ADMINISTRATION

**STANDARD AIRWORTHINESS CERTIFICATE**

*Copy*

1 NATIONALITY AND REGISTRATION MARKS  N493LX	2 MANUFACTURER AND MODEL  Raytheon Aircraft Company 400A	3 AIRCRAFT SERIAL NUMBER  RK-244	4 CATEGORY  Transport
---	---	---	-----------------------------

**5 AUTHORITY AND BASIS FOR ISSUANCE**

This airworthiness certificate is issued pursuant to 49 U.S.C. § 44704 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein.

Exceptions:

**\*NONE\***

**6 TERMS AND CONDITIONS**

Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the FAA, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and inspection requirements are met in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is operated in accordance with the type certificate and the terms and conditions of this certificate.

DATE OF ISSUANCE  03/06/2014	DESIGNATION NUMBER  DART833943GL
------------------------------------	--

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.**



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

<b>A</b>	CATEGORY/DESIGNATION		Experimental
	PURPOSE		Market Survey
<b>B</b>	MANUFACTURER	NAME	N/A
		ADDRESS	N/A
<b>C</b>	FLIGHT	FROM	
		TO	
<b>D</b>	N- 493LX		SERIAL NO. RK-244
	BUILDER Raytheon Aircraft Co.		MODEL 400A
	DATE OF ISSUANCE Feb/05/2014		EXPIRY Aug/04/2014
<b>E</b>	OPERATING LIMITATIONS DATE Feb/05/2014		ARE PART OF THIS CERTIFICATE DESIGNATION OR OFFICE NO. DART833943GL

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 TITLE 14, CODE OF FEDERAL REGULATIONS (CFR).

**A** This airworthiness certificate is issued under the authority of Public Law 104-6, 49 United States Code (USC) 44704 and Title 14 Code of Federal Regulations (CFR).

**B** The 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 CFR. 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 CFR 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 14 CFR, Part 21, Section 21.181 or 21.217.



March 3, 2014

ThorAir, LLC.

[REDACTED]  
Sandusky, Oh

Re: RK 244 - Agent Authorization

To whom it may concern:

This letter is to confirm that ThorAir, LLC, authorizes Nextant Aerospace, LLC, as ThorAir's agent for a Beechjet 400A, bearing serial number RK-244 and FAA Registration number N493LX, which is owned by ThorAir, LLC., and operated by ThorSport, Inc., for any and all authorized FAA actions needed.

Sincerely,

ThorAir LLC

By: [REDACTED]

[REDACTED]  
My Commission expires 1 AUG 2016  
Notary's Official Signature

Sworn and subscribed to me this day, 3 of MARCH, 2014 by [REDACTED]



## RK-244 STC list (03/05/2014)

Reference 8130-6:

Application for Standard Airworthiness Certificate  
Transport Category, dated March 6, 2014

Reference section III owners certification

ST02371LA: Replacement of Pratt & Whitney JT15D-5 series engine with Williams International FJ44-3AP engine (TCDS E3GL) with Full Authority Digital Engine Control (FADEC) and associated systems.

ST10959SC: Installation of Rockwell Collins Pro Line 21 Electronic Flight Instrument System (EFIS) with Rockwell Collins FMS-6100, Localizer Performance with Vertical Guidance (LPV) approach capability and Universal Avionics System Company (UASC) Terrain Awareness Warning System (TAWS)

ST03960AT: Installation of Aircell Axxess Cabin II Iridium Phone and High Speed Internet System with Wireless Local Area Network (WLAN), Astronics 115VAC 60Hz Cabin Inverter and Bonner LED Cabin Lighting System.

ST01572WI: Installation of four (4) model 400A OEM seats, one (1) three-place divan, one (1) aft toilet, one (1) set of aft pocket door dividers, one (1) set of forward pocket door dividers and LED lighting.

STC01794LA: Installation of Hawker 97650W0370 or 9750W0370-8 battery

ST000812SE: Group airplane approval for Reduced Vertical Separation Minimum – (RVSM)



W493LX

0

EFTA00011761



STC TYPE:  
PRODUCTION  
SERIAL #:  
MODEL YR

244  
400A  
A16S

CAST (3)

SERIAL

EFTA00011763



Nextant aerospace

STC TYPE: 4000XTI

PRODUCTION #: 28

SERIAL #: RK-244

MODEL YEAR: 2014



## FAA FORM 8130-6, APPLICATION FOR U.S. AIRWORTHINESS CERTIFICATE

Form Approved O.M.B. No. 2120-0018  
Expiration Date 02/28/2013

I. AIRCRAFT DESCRIPTION	<b>APPLICATION FOR U.S. AIRWORTHINESS CERTIFICATE</b>				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 attachment. For special flight permits complete Sections II, VI, and VII as applicable.							
	1. REGISTRATION MARK N493LX	2. AIRCRAFT BUILDER'S NAME (Make) Raytheon Aircraft Co	3. AIRCRAFT MODEL DESIGNATION 400A	4. YR. MFR. 1999	FAA CODING							
	5. AIRCRAFT SERIAL NO. RK-244	6. ENGINE BUILDER'S NAME (Make) Williams International	7. ENGINE MODEL DESIGNATION FJ44-3AP									
	8. NUMBER OF ENGINES 2	9. PROPELLER BUILDER'S NAME (Make) N/A	10. PROPELLER MODEL DESIGNATION N/A	11. AIRCRAFT IS (Check if applicable) IMPORT								
II. CERTIFICATION REQUESTED	APPLICATION IS HEREBY MADE FOR: (Check applicable items)											
	A 1 <input checked="" type="checkbox"/> STANDARD AIRWORTHINESS CERTIFICATE (Indicate category)	NORMAL	UTILITY	ACROBATIC	<input checked="" type="checkbox"/> TRANSPORT	COMMUTER	BALLOON	OTHER				
	B 1 <input type="checkbox"/> SPECIAL AIRWORTHINESS CERTIFICATE (Check appropriate items)											
	7 PRIMARY											
	9 LIGHT-SPORT (Indicate class)	Airplane	Power-Parachute	Weight-Shift-Control	Glider	Lighter than Air						
	2 LIMITED											
	5 PROVISIONAL (Indicate class)	1 CLASS I										
	3 RESTRICTED (Indicate operation(s) to be conducted)	2 CLASS II										
		1 AGRICULTURE AND PEST CONTROL	2	AERIAL SURVEY	3	AERIAL ADVERTISING						
		4 FOREST (Wildlife conservation)	5	PATROLLING	6	WEATHER CONTROL						
		0 OTHER (Specify)										
		1 RESEARCH AND DEVELOPMENT	2	AMATEUR BUILT	3	EXHIBITION						
		4 AIR RACING	5	CREW TRAINING	6	MARKET SURVEY						
		0 TO SHOW COMPLIANCE WITH THE CFR	7	OPERATING (Primary Category) KIT BUILT AIRCRAFT								
	4 EXPERIMENTAL (Indicate operation(s) to be conducted)	8A Existing aircraft without an airworthiness certificate & do not meet § 103.1										
	8B Operating Light-Sport Kit-built											
	8C Operating light-sport previously issued special light-sport category airworthiness certificate under § 21.190											
8	9A UNMANNED AIRCRAFT	9C	RESEARCH AND DEVELOPMENT	9D	CREW TRAINING							
	9B MARKET SURVEY											
1 FERRY FLIGHT FOR REPAIRS, ALTERATIONS, MAINTENANCE, OR STORAGE												
2 EVACUATE FROM AREA OF IMPENDING DANGER												
3 OPERATION IN EXCESS OF MAXIMUM CERTIFICATED TAKE-OFF WEIGHT												
4 DELIVERING OR EXPORTING	5	PRODUCTION FLIGHT TESTING										
6 CUSTOMER DEMONSTRATION FLIGHTS												
C 6 MULTIPLE AIRWORTHINESS CERTIFICATE (Check ABOVE 'Restricted Operation' and 'Standard' or 'Limited' as applicable)												
A. REGISTERED OWNER (As shown on certificate of aircraft registration)											IF DEALER, CHECK HERE <input type="checkbox"/>	
NAME Flight Options LLC											ADDRESS Richmond Heights .OH 44143	
B. AIRCRAFT CERTIFICATION BASIS (Check applicable blocks and complete items as indicated)												
✓ AIRCRAFT SPECIFICATION OR TYPE CERTIFICATE DATA SHEET (Give No. and Revision No.) A16SW Rev 28						✓	AIRWORTHINESS DIRECTIVES (Check if all applicable ADs are compiled with and give the number of the last AD SUPPLEMENT available in the biweekly series as of the date of application) Bi Weekly 2013-25 12/02/2013 - 12/15/2013					
AIRCRAFT LISTING (Give page number(s)) N/A						✓	SUPPLEMENTAL TYPE CERTIFICATE (List number of each STC incorporated) See attached sheet					
C. AIRCRAFT OPERATION AND MAINTENANCE RECORDS												
✓ CHECK IF RECORDS IN COMPLIANCE WITH 14 CFR section 91.417			TOTAL AIRFRAME HOURS TTAF 8581.43				3	EXPERIMENTAL ONLY (Enter hours flown since last certificate issued or renewed) 2.81				
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 Title 49 of the United States Code 44101 et seq, 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 12/29/2013			NAME AND TITLE (Print or type) Agent				SIGN					
IV. INSPECTION AGENCY VERIFICATION												
A. THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY: (Complete the section only if 14 CFR part 21.183(d) applies)												
2	14 CFR part 121 CERTIFICATE HOLDER (Give Certificate No.)	3	CERTIFICATED MECHANIC (Give Certificate No.)				6	CERTIFICATED REPAIR STATION (Give Certificate No.)				
5	AIRCRAFT MANUFACTURER (Give name or firm)											
DATE			TITLE				SIGNATURE					
V. FAA REPRESENTATIVE CERTIFICATION												
(Check ALL applicable block items A and B)						✓	THE CERTIFICATE REQUESTED					
A. I find that the aircraft described in Section I or VII meets requirements for						4	AMENDMENT OR MODIFICATION OF CURRENT AIRWORTHINESS CERTIFICATE					
B. Inspection for a special flight permit under Section VII was conducted by:							FAA INSPECTOR	FAA DESIGNEE				
						CERTIFICATE HOLDER UNDER		14 CFR part 65	14 CFR part 121 OR 135	14 CFR part 145		
DATE 12/29/2013		MID/FSDO OFFICE CLE-25	4									



VI. PRODUCTION FLIGHT TESTING	A. MANUFACTURER																																							
	NAME		ADDRESS																																					
	B. PRODUCTION BASIS (Check applicable item)																																							
		PRODUCTION CERTIFICATE (Give production certificate number)			→																																			
		TYPE CERTIFICATE																																						
		OTHER:																																						
	C. GIVE QUANTITY OF CERTIFICATES REQUIRED FOR OPERATING NEEDS																																							
	DATE OF APPLICATION		NAME AND TITLE (Print or type)		SIGNATURE																																			
	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																																								
	PILOT	CO-PILOT	FLIGHT ENGINEER	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 Title 49 of the United States Code 44101 <u>et seq.</u> and applicable Federal Aviation Regulations; and that the aircraft has been inspected and is safe for the flight described.																																								
DATE		NAME AND TITLE (Print or type)			SIGNATURE																																			
<table border="0"> <tr> <td rowspan="2">✓</td> <td colspan="2">A. Operating Limitations and Markings in Compliance With 14 CFR Section 91.9, As Applicable</td> <td colspan="3">G. Statement of Conformity, FAA Form 8130-9 (Attach when required)</td> </tr> <tr> <td colspan="2">B. Current Operating Limitations Attached</td> <td colspan="3">H. Foreign Airworthiness Certification for Import Aircraft (Attach when required)</td> </tr> <tr> <td>✓</td> <td colspan="2">C. Data, Drawings, Photographs, etc. (Attach when required)</td> <td colspan="3">I. Previous Airworthiness Certificate Issued in Accordance With 14 CFR Section <u>21.191 (a)</u> CAR _____ (Original attached)</td> </tr> <tr> <td>✓</td> <td colspan="2">D. Current Weight and Balance Information Available in Aircraft</td> <td colspan="3">J. Current Airworthiness Certificate Issued in Accordance With 14 CFR Section <u>21.181 (a)</u> (Copy attached)</td> </tr> <tr> <td>✓</td> <td colspan="2">E. Major Repair and Alteration, FAA Form 337 (Attach when required)</td> <td colspan="3">K. Light-Sport Aircraft Statement of Compliance, FAA Form 8130-15 (Attach when required)</td> </tr> <tr> <td>✓</td> <td colspan="2">F. This inspection Recorded in Aircraft Records</td> <td colspan="3"></td> </tr> </table>						✓	A. Operating Limitations and Markings in Compliance With 14 CFR Section 91.9, As Applicable		G. Statement of Conformity, FAA Form 8130-9 (Attach when required)			B. Current Operating Limitations Attached		H. Foreign Airworthiness Certification for Import Aircraft (Attach when required)			✓	C. Data, Drawings, Photographs, etc. (Attach when required)		I. Previous Airworthiness Certificate Issued in Accordance With 14 CFR Section <u>21.191 (a)</u> CAR _____ (Original attached)			✓	D. Current Weight and Balance Information Available in Aircraft		J. Current Airworthiness Certificate Issued in Accordance With 14 CFR Section <u>21.181 (a)</u> (Copy attached)			✓	E. Major Repair and Alteration, FAA Form 337 (Attach when required)		K. Light-Sport Aircraft Statement of Compliance, FAA Form 8130-15 (Attach when required)			✓	F. This inspection Recorded in Aircraft Records				
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✓	C. Data, Drawings, Photographs, etc. (Attach when required)		I. Previous Airworthiness Certificate Issued in Accordance With 14 CFR Section <u>21.191 (a)</u> CAR _____ (Original attached)																																					
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✓	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>N 4 9 3 L X</b>	2 MANUFACTURER AND MODEL <b>Raytheon Aircraft Company 400A</b>	3 AIRCRAFT SERIAL NUMBER <b>RK-244</b>	4 CATEGORY <b>Transport</b>
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## 5 AUTHORITY AND BASIS FOR ISSUANCE

This airworthiness certificate is issued pursuant to 49 U.S.C. § 44704 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein.

Exceptions:

\*None\* 

## 6 TERMS AND CONDITIONS

Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the FAA, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations.

DATE OF ISSUANCE <b>12/29/2013</b>
---------------------------------------

DESIGNATION NUMBER

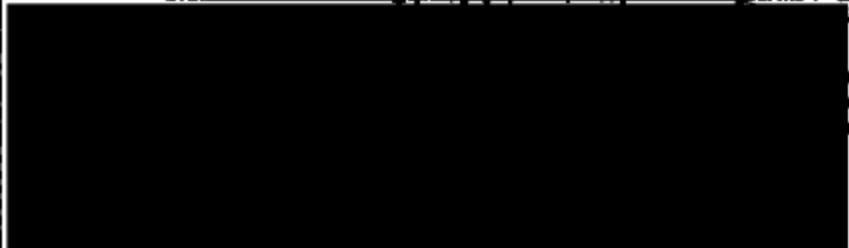
<b>DART 833943GL</b>
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Any alteration, reproduction, or misuse of this certificate may be punishable by a fine not exceeding \$1,000 or imprisonment not exceeding 3 years or both.  
THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.



UNITED STATES OF AMERICA  
DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

**SPECIAL AIRWORTHINESS CERTIFICATE**

<b>A</b>	CATEGORY/DESIGNATION <b>EXPERIMENTAL</b>	
<b>B</b>	PURPOSE <b>RESEARCH &amp; DEVELOPMENT</b>	
<b>C</b>	MANUFACTURER	NAME <b>NA</b>
	ADDRESS	<b>NA</b>
<b>D</b>	FLIGHT	FROM <b>NA</b>
	TO	<b>NA</b>
<b>E</b>	N- 493LX	SERIAL NO. <b>RK- 244</b>
BUILDER	Raytheon Aircraft Company	MODEL <b>400A</b>
DATE OF ISSUANCE	Nov 18 2013	EXPIRY Jan 12, 2014
OPERATING LIMITATIONS DATED, Nov 18, 2013, ARE PART OF THIS CERTIFICATE		
<b>E</b> 		DESIGNATION OR OFFICE NO. <b>DART833943GL</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 TITLE 14, CODE OF FEDERAL REGULATIONS (CFR).

A	This airworthiness certificate is issued under the authority of Public Law 104-6, 49 United States Code (USC) 44704 and Title 14 Code of Federal Regulations (CFR).
B	The 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 CFR. 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 CFR 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 14 CFR, Part 21, Section 21.181 or 21.217.

## RK 244 STC list (12-26-2013)

Reference 8130-6:

Application for Standard Airworthiness Certificate  
Transport Category, dated December 26, 2013

Reference section III owners certification

ST02371LA: Replacement of Pratt & Whitney JT15D-5 series engine with Williams International FJ44-3AP engine (TCDS E3GL) with Full Authority Digital Engine Control (FADEC) and associated systems.

ST10959SC: Installation of Rockwell Collins Pro Line 21 Electronic Flight Instrument System (EFIS) with Rockwell Collins FMS-6100, Localizer Performance with Vertical Guidance (LPV) approach capability and Universal Avionics System Company (UASC) Terrain Awareness Warning System (TAWS)

ST03960AT: Installation of Aircell Axxess Cabin II Iridium Phone and High Speed Internet System with Wireless Local Area Network (WLAN), Astronics 115VAC 60Hz Cabin Inverter and Bonner LED Cabin Lighting System.

ST01572WI: Installation of four (4) model 400A OEM seats, one (1) three-place divan, one (1) aft toilet, one (1) set of aft pocket door dividers, one (1) set of forward pocket door dividers and LED lighting.

STC01794LA: Installation of Hawker 97650W0370 or 9750W0370-8 battery

ST000812SE: Group airplane approval for Reduced Vertical Separation Minimum – (RVSM)



Cleveland, Ohio 44143



December 26, 2013

Nextant Aerospace, LLC

Cleveland, Ohio 44143

Attention: [REDACTED]

Re: RK-244 – Agent Authorization

To whom it may concern:

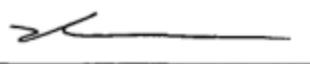
This letter is to confirm that Flight Options, LLC ("FO") authorizes Nextant Aerospace, LLC, as FO's agent, for a Beechjet 400A, bearing serial number RK-244 and FAA Registration Number N493LX (also identified as a "Nextant 400XT"), which is owned by FO, for any and all authorized FAA actions in regards to:

Airworthiness Classification Experimental

Airworthiness Classification Standard

Sincerely,

Flight Options, LLC

By: 

Vice President, Administration & Contracts

Notary's Official Signature

Sworn and Subscribed to me this  
day 26 of December of 2013  
by [REDACTED]

EFTA00011777



on

EFTA00011779





U.S. Department of  
Transportation  
Federal Aviation  
Administration

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

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

Electronic Tracking Number

For FAA Use Only

**INSTRUCTIONS:** Print or type all entries. See 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	Nationality and Registration Mark  N493LX		Serial No  RK-244
	Make  Raytheon Aircraft Company	Model  400A	Series
2. Owner	Name (As shown on registration certificate)  Flight Options LLC		Address (As shown on registration certificate)  Address City Richmond Heights Zip 44143-1453 Country USA
3. For FAA Use Only			

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial Number
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above) _____	
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT	_____	_____	
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER	_____	_____	
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type	_____	
			Manufacturer	_____	

6. Conformity Statement			
A. Agency's Name and Address		B. Kind of Agency	
Name	Nextant Aerospace	<input type="checkbox"/> U.S. Certificated Mechanic	<input type="checkbox"/> Manufacturer
Address	_____	<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City	Cleveland	<input checked="" type="checkbox"/> Certificated Repair Station	_____
Zip	44143-1453	<input type="checkbox"/> Certificated Maintenance Organization	CRS # 25NR667B
D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.			

Extended range fuel per 14 CFR Part 43 App. B	<input type="checkbox"/>	05/30/2013
7. Approval for Return to Service		

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

BY	FAA Fit Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport
	FAA Designee	X Repair Station	Inspection Authorization	Other (Specify) _____
Certificate or Designation No. CRS # 25NR667B		05/30/2013		



**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.)

N493LX

Nationality and Registration Mark

05/30/2013

Date

Part 1 of 3

The Following Equipment was removed along with Associated Hardware.

EFD-871	622-9345-203	Electronic Flight Display
EFD-871	622-9345-203	Electronic Flight Display
MFD-871	622-9434-213	Multi Function Display
ICU-85	622-6189-002	Internal Compensation Unit
ICU-85	622-6189-002	Internal Compensation Unit
AHC-85E	622-9336-400	Attitude/Heading Computer
AHC-85E	622-9336-400	Attitude/Heading Computer
SDU-640B	622-9735-001	Sensor Display Unit
SDU-640B	622-9735-001	Sensor Display Unit
DCP-5000	822-1028-011	Display Control Panel
DCP-5000	822-1028-011	Display Control Panel
ARP-851	622-9500-011	Altitude Reference Panel
ARP-851	622-9500-011	Altitude Reference Panel
AAP-851	822-0328-011	Altitude Awareness Panel
AAP-851	822-0328-011	Altitude Awareness Panel
CHP-850	622-7397-002	Course Heading Panel
DBU-4100	822-0014-002	Data Base Unit
DAU-650	622-9344-101	Data Acquisition Unit
SDD-640A	622-9347-001	Sensor Display Driver
IOC-4000 (4)	622-9814-514	Card Assembly
MDC-4000	622-9818-751	Maintenance Computer
CSU-4000 (2)	822-0049-002	Configuration Strapping Unit
FMC-5000 (4)	822-0891-008	Flight Management Computer
PWR-4000 (4)	622-9945-021	IAPS Power Card
GPS-4000	822-0931-003	GPS Receiver
Mounts	622-9430-002	EFD /MFD Mounts
EFB		Electronic Flight Bag Mounting

 Additional Sheets Are Attached



**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.)

N493LX

5/30/2013

Nationality and Registration Mark

Date

Page 2 of 3

Installed the Following Equipment along with Associated Hardware.

Model	Part Number	Description	Weight	Arm
CCP-3000	822-1746-002	Cursor Control Panel	2.60	90.0
CCP-3000	822-1746-002	Cursor Control Panel	2.60	90.0
DCU-3001C	822-2362-003	Data Concentrator Unit	5.0	325
DCU-3001C	822-2362-003	Data Concentrator Unit	5.0	325
ECU-3000	822-1200-209	External Compensation Unit	0.40	57.5
ECU-3000	822-1200-209	External Compensation Unit	0.40	57.5
FSU-5010	822-1543-101	File Server Unit (1 <sup>st</sup> IFIS)	6.5	60.83
ECU-3000	822-1200-998	File Server Unit (1st IFIS)	0.40	57.5
AFD-3010E	822-1753-416	Adaptive Flight Display	12.90	89.2
AFD-3010E	822-1753-416	Adaptive Flight Display	12.90	89.2
AFD-3010E	822-1753-416	Adaptive Flight Display	12.90	89.2
IMT-3010	822-1140-401	AFD Mounting Rack	4.40	85.0
IMT-3010	822-1140-401	AFD Mounting Rack	4.40	85.0
IMT-3010	822-1140-401	AFD Mounting Rack	4.40	85.0
IMT-3010	822-1140-401	AFD Mounting Rack	4.40	85.0
	10852B01Y00	Fuel Quantity Conditioner	0.90	324
	PC920-2A2000PH-2A1	Fuel Flow Conditioner	1.10	325
GPS-4000S	822-2189-004	GPS Receiver	6.0	37
	CI 429-410	GPS Antenna	1.0	166.14
Amp Cluster	N241100-002	DC Voltmeter	1.5	97.4
	373-93-1501-1	Speed Switch (2)	0.25	89.2
DBU-5010E	822-3000-202	Data Base Unit	1.60	134.5
PS-835D	501-1228-004	Power Supply	12.5	52.9
MMT-5000	822-1811-003	File Server Unit Rack	0.30	57.5
MMT-3010 (2)	822-1290-003	AHS Mounting Rack	1.80	57.5
XM WR-1000	822-2031-002	XM Weather	1.5	41.0
CHP-3010	822-1280-003	Course Heading Panel	1.30	92.5
OCM-4100	822-1463-228	Options Configuration Module. WAAS/LPV	0.30	57.5
OCM-4100	822-1463-228	Options Configuration Module. WAAS/LPV	0.30	57.5

 Additional Sheets Are Attached



**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.)

N493LX

05/30/2013

Nationality and Registration Mark

Date

Page 3 of 3

Model	Part Number	Description	Weight	Arm
CSU-4100 (2)	822-1364-002	Configuration Strapping Unit	1.60	55.7
MDC-3110	822-1987-006	Maintenance Data Computer	0.80	55.7
FMC-6000 (2)	822-0868-123	Flight Management Computer	1.90	55.7
ADC-850D (2)	822-0389-468	Air Data Computer	5.30	60.83
AHC-3000A (2)	822-1378-001	Attitude Heading Computer	4.80	57.5
DCP-3030 (2)	822-1828-002	Display Control Panel	1.90	89.96
PWR-4000 (4)	622-9945-022	IAPS Power Card	1.3	55.0
IOC-4100 (4)	822-1362-511	Input/output Concentrator	0.8	55.0
	LT-4001-010	Master Caution Panel	1.3	87.0
Rev. Panel	373-91-3203-1	Pilot Reversion Panel	0.2	88.0
Rev. Panel	373-91-3203-3	Co-pilot Reversion Panel	0.2	88.0
9-PED	373-91-3203-9	9-Pedestal Panel	1.8	92.89
	345-6196	ELT Switch	0.2	88.0
Annunciator	Led-42-12-BB-E0Y47	AUX BATT (1/2) Annunciator	0.05	88.0
Annunciator (2)	Led-40-18-BB-E0Y45	Pull Up/ Terrain Annunciator	0.05	88.0
Annunciator	2-F840231	Terrain Inhibit/ Terrain Fail	0.05	88.0

In Accordance with STC ST10959SC. See Attached Copy

AFM Supplement, Nextant Aerospace Doc. No. 373-00-0023 Rev IR Dated 09/02/2011 or later FAA approved revision, installed on Aircraft.

Equipment Pilot Guides are Installed in the Aircraft as Portable Document Format (.pdf) via supplied I-Pad.

NOTE: Portable electronic devices used to store required aircraft records required by Part 91.9 are considered Electronic Flight Bags (EFB) per FAA Advisory Circular AC 120-76B par 4-g. Commercial operators are required to obtain authorization for their use from their managing Flight Standards District Office.

Instructions for Continued Airworthiness (ICA) Ref Nextant Aerospace Document 373-00-0002.Rev C or Later are included in the Aircraft Maintenance Records

Carried out System Ground Test Plan IAW Master Drawing List (MDL) 373-00-004 Rev C.

Carried out Hawker Beechcraft Service Bulletin 34-3431 Reduced Vertical Separation Minimum (RVSM) Airframe Inspection / Modification. Performed FAR 91.411 Inspection per Part 43 appendix "E" Pitot Static & FAR 91.413 Inspection per Part 43 appendix "F" Transponder System checks.

Additional Sheets Are Attached



United States of America  
Department of Transportation -- Federal Aviation Administration

# Supplemental Type Certificate

Number ST10959SC

This certificate is issued to

Nextant Aerospace LLC

[REDACTED]  
Richmond Heights, OH 44143

certifies that the change in the type design for the following product with the limitations and conditions hereinafter specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations (See Pages 3 and 4 for complete certification basis.)

Original Product Type Certificate Number A16SW

Make Hawker Beechcraft Corp.

Model 400A

Description of Type Design Change: Installation of Rockwell Collins Pro Line 21 Electronic Flight Instrument System (EFIS) with Rockwell Collins FMS-6100, Localizer Performance with Vertical Guidance (LPV) approach capability and Universal Avionics Systems Company (UASC) Terrain Awareness Warning System (TAWS) in accordance with Nextant Aerospace LLC Master Drawing List Doc. No. 373-00-0001 Revision W, dated March 29, 2012, or later FAA approved version.

*Limitations and Conditions:*

- 1) The installer must determine whether this design change is compatible with previously approved modifications.
- 2) If the holder agrees to permit another person to use this certificate to alter a product, the holder must give that person written evidence of that permission.
- 3) For aircraft equipped with Pratt & Whitney JT15D Engines FAA approved Airplane Flight Manual Supplement, Nextant Aerospace LLC Doc. No. 373-00-0008 Revision IR, dated 10/19/2009, or later FAA approved version, is required on board the modified aircraft.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: June 26, 2008

Date reissued:

Date of issuance: October 19, 2009

Date amended: September 26, 2011; April 05, 2012



[REDACTED]  
Manager, Systems and Flight Test Branch  
Chicago Aircraft Certification Office

(Title)

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



United States of America  
Department of Transportation - Federal Aviation Administration

# Supplemental Type Certificate

## (Continuation Sheet)

*Number* ST10959SC

*Date of issuance:* October 19, 2009  
Date Amended: September 26, 2011; April 05, 2012

*Limitations and Conditions (continued):*

- 4) For aircraft equipped with Williams FJ44-3AP Engines, those engines must be installed under STC ST02371LA.
- 5) For aircraft equipped with Williams FJ44-3AP Engines FAA approved Airplane Flight Manual Supplement, Nextant Aerospace LLC Doc. No. 373-00-0023 Revision IR, dated September 2, 2011, or later FAA approved version, is required on board the modified aircraft.
- 6) Aircraft must have previously qualified for Operations in Reduced Vertical Airspace via: RK-1 thru RK-117 and RK-119 thru RK-139, Hawker Beechcraft Service Bulletin No. 34-3431. RK-118, RK-140 thru RK-224, Hawker Beechcraft Service Bulletin Nos. 34-3228 and 34-3431. RK-225 thru RK-299, Hawker Beechcraft Service Bulletin No. 34-3431. RK-300 and after as original equipped from Hawker Beechcraft.
- 7) For aircraft equipped with Universal Avionics Systems Corporation (UASC) TAWS FAA approved Airplane Flight Manual Supplement, Nextant Aerospace LLC Doc. No. 373-00-0036 Revision IR, approved March 28, 2012, or later FAA approved version, is required on board the modified aircraft.
- 8) For aircraft with Collins Proline 21 FMS-6100 LPV Approach enabled FAA approved Airplane Flight Manual Supplement, Nextant Aerospace LLC Doc. No. 373-00-0032 Revision IR, approved March 28, 2012, or later FAA approved version, is required on board the modified aircraft.

*Certification Basis:*

Based on 14 CFR §§21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for the Hawker Beechcraft 400A aircraft is as follows:

- a. The type certification basis for the Hawker Beechcraft 400A aircraft is shown on TCDS A16SW for parts not changed or not affected by this change.
- b. The certification basis for the parts changed or affected by this change since the reference date of application, September 29, 2009, is based on TCDS A16SW and §§ 14 CFR Part 25 as shown on page 4 of 4 of this STC.



United States of America  
 Department of Transportation - Federal Aviation Administration  
**Supplemental Type Certificate**  
**(Continuation Sheet)**

*Date of issuance* October 19, 2009  
 Date Amended: September 26, 2011; April 05, 2012

Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for the baseline Installation of Rockwell Collins Pro Line 21 Electronic Flight Instrument System (EFIS) with Rockwell Collins FMS-6100 modification was determined to be TCDS A16SW and the following later regulations:

Amdt.[24-4] 25.771 (a,e)	Amdt.[25-23] 25.301; 25.303; 25.581; 25.607; 25.611, 25.773 (a)(1)(2)(d)	Amdt.[25-38] 25.1309 (a)(b)(c)(d)(e)(g); 25.1322	Amdt.[25-40] 25.901 (b)(l)(i); 25.1549 (a)(b)(c)	Amdt.[25-41] 25.1321 (a)(b)(c)(e); 25.1331; 25.1333
Amdt.[25-42] 25.1501	Amdt.[25-46] 25.603; 25.605; 25.613; 25.1329 (h)	Amdt.[25-54] 25.1529	Amdt.[25-72] 25.307; 25.571, 25.1307 (c)(e); 25.1351 (a)(l)(d); 25.1381; 25.1521 (a)(c); 25.1543 (b); 25.1581; 25.1583 (a)	Amdt.[25-80] 25.1316
Amdt.[25-86] 25.305	Amdt.[25-90] 25.1303	Amdt.[25-91] 25.561	Amdt.[25-102] 25.981 (a)(b)	Amdt.[25-105] 25.1585 (a)
Amdt.[25-108] 25.1325 (d)	Amdt.[25-109] 25.1323 (a)(l)(g)	Amdt.[25-113] 25.869 (a)(4); 25.1431	Amdt.[25-122] 25.1317 (a)(b)(c)	Amdt.[25-123] 25.1353 (a)(c)

Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for the Collins Proline 21 FMS-6100 with LPV Approach enabled and UASC TAWS was determined to be TCDS A16SW and the following later regulations:

Amdt.[Original] 25.601, 25.605, 25.609, 25.613, 25.1301, 25.1357, 25.1381, 25.1525, 25.1541, 15.1581	Amdt.[24-4] 25.771 (a)	Amdt.[25-23] 25.301; 25.303; 25.305, 25.307, 25.561(c); 25.607; 25.611, 25.1307	Amdt.[25-38] 25.603, 25.1322, 25.1583(e)	Amdt.[25-40] 25.1585 (a)
Amdt.[25-41] 25.1309 (a)(b)(c)(d)(e)(g) 25.1351 (a)(l)	Amdt.[25-42] 25.1501	Amdt.[25-46] 25.777(a)(c)	Amdt.[25-54] 25.1529	Amdt.[25-72] 25.869(a)(l)
Amdt.[25-102] 25.981(a)(b)	Amdt.[25-113] 25.1431(a)	Amdt.[25-123] 25.1353 (a)(c)		

- END -





U.S. Department of  
Transportation  
Federal Aviation  
Administration

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

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

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See 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	Nationality and Registration Mark N493LX		Serial No.	RK 244	
	Make Raytheon Aircraft Company		Model	400A	Series
2. Owner	Name (As shown on registration certificate) Flight Options .LLC		Address (As shown on registration certificate) Address [REDACTED] City Richmond Heights State. OH Zip 44143-1453 Country USA		

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial Number
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above) _____	
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name	Nextant Aerospace	<input type="checkbox"/> U.S. Certificated Mechanic	<input type="checkbox"/> Manufacturer
Address	[REDACTED]	<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City	Cleveland	<input checked="" type="checkbox"/> Certificated Repair Station	
Zip	44143-1453	<input type="checkbox"/> Certificated Maintenance Organization	CRS # 25NR667B

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

Extended range fuel per 14 CFR Part 43 App. B	<input type="checkbox"/>	Signature/Date of Authorized Individual	[REDACTED]	05/30/2013
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7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED				
---	--	--	--	--

BY	FAA Fit Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport
	FAA Designee	X Repair Station	Inspection Authorization	Other (Specify)
Certificate or Designation No. CRS # 25NR667B		Signature/Date of Authorized Individual		05/30/2013



**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.)

N493LX

05/30/2013

Nationality and Registration Mark

Date

Nextant Aerospace Completed STC # ST02371LA

Removed Pratt and Whitney JT15D-5 Series Engines .

Installed the Williams International FJ44-3AP Engines with Full FADEC and Associated Systems in accordance with Nextant Aerospace MDL-NXT-001 Rev IR Dated 08/22/2011 or later FAA approved revisions, and FAA Approved AFM Supplement NXT-1-AFMS Rev IR dated 9/15/2011 of later FAA Approved revisions.

Installed Left Engine Part Number. 111000-202 Serial No. 252757

Installed Right Engine Part Number 111000-202 Serial No. 252758

ICA

AFM Supplement was installed on Aircraft.

Nextant Aerospace Instructions for Continued Airworthiness Document NXT-ICA Rev IR or later FAA accepted revisions are included in the Aircraft Maintenance Records.

Carried out Engine Ground Runs and System OPS checks IAW Ground Test Plan 373-00-0024 Rev F.

.....End.....

Additional Sheets Are Attached



United States Of America  
Department of Transportation - Federal Aviation Administration

# Supplemental Type Certificate

Number ST02371LA

This Certificate is issued to

Nextant Aerospace, LLC

[REDACTED]  
Richmond Heights, Ohio 44143

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 25\* of the Federal Aviation Regulations. \*Certification basis is set forth on TCDS A16SW and continuation sheets 3 and 4.

Original Product Type Certificate Number: A16SW

Make: Hawker Beechcraft

Model: 400A

Description of Type Design Change: Replacement of Pratt & Whitney JT15D-5 series engine with Williams International FJ44-3AP engine (TCDS E3GL) with Full Authority Digital Engine Control (FADEC) and associated systems, in accordance with Nextant Aerospace Master Drawing List No.: MDL-NXT-001, Revision IR dated 8/22/2011, or later FAA approved revisions and FAA Approved Airplane Flight Manual Supplement, NXT1-AFMS, Rev IR, dated September 15, 2011 or later FAA approved revisions. Nextant Aerospace, LLC Instructions for Continued Airworthiness document NXT1-ICA, Revision IR, or later FAA accepted revisions must be provided with this STC.

Limitations and Conditions: The installation should not be incorporated in any aircraft unless it is determined that the interrelationship between this installation and any previously approved configuration will not introduce any adverse effect upon the airworthiness of that aircraft. The approval of this modification applies to the above-noted airplane models only. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

(CONTINUED on page 3)

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: March 24, 2008

Date reissued:

Date of issuance: September 27, 2011

Date amended:



Brian G. Clegg, Administrator

[REDACTED]  
(Signature)

Manager, Propulsion Branch  
Los Angeles Aircraft Certification Office

(Title)

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



INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Regional Office of the transfer of this Supplemental Type Certificate.

The FAA will reissue the certificate in the name of the transferee and forward it to him.

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### TRANSFER ENDORSEMENT

Transfer the ownership of the Supplemental Type Certificate Number \_\_\_\_\_

to (*Name of transferee*) \_\_\_\_\_

(*Address of transfer*) \_\_\_\_\_  
(*Number and street*) \_\_\_\_\_

(*City, State, and Zip code*) \_\_\_\_\_

from (*Name of grantor*) (*Print or type*) \_\_\_\_\_

(*Address of grantor*) \_\_\_\_\_  
(*Number and street*) \_\_\_\_\_

(*City, State, and Zip code*) \_\_\_\_\_

Extent of Authority (if licensing agreement): \_\_\_\_\_

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Date of Transfer: \_\_\_\_\_

Signature of grantor (*In ink*): \_\_\_\_\_



United States Of America  
Department of Transportation - Federal Aviation Administration

# Supplemental Type Certificate

(Continuation Sheet)

Number ST02371LA

*Limitations and Conditions (continued)*

- Nextant Aerospace, LLC, "Installation of Rockwell Collins Pro Line 21," Amended STC ST10959SC, dated September 26, 2011 or later FAA approved revisions is required as part of this alteration.
- The new Vmca and Vmcg values are 94 KIAS and 93 KIAS respectively.
- The new engine minimum rated thrust is 3,031 lb at sea level, flat rated to an ambient temperature of 77°F.
- Approved engine fuels are:

<u>Grade</u>	<u>Specification</u>
Jet A	ASTM-D 1655
Jet A-1	ASTM-D 1655

*Certification Basis*

The certification basis for this modification is as follows:

The original certification basis for the Hawker Beechcraft Model 400A airplanes identified on TCDS A16SW, Revision 26, dated March 17, 2010:

Part 25 of the Federal Aviation Regulations effective February 1, 1965, as amended by 25-1 through 25-40, plus §§ 25.1335, 25.1351(d), 25.1353(c)(5), and 25.1447 of Amendment 25-41; §§ 25.29, 25.255, and 25.1353(c)(6) of Amendment 25-42; and §§ 25.361(b) and 25.1329(h) of Amendment 25-46. Part 36 of the Federal Aviation Regulations effective December 1, 1969, as amended by 36-1 through 36-17; SFAR 27 effective February 1, 1974, as amended by 27-1 through 27-5; and Special Conditions No. 25-ANM-32 dated February 22, 1990 (High Altitude Operation at 45,000 feet), and Special Conditions No. 25-ANM-33 dated June 18, 1990 (Lightning and Radio Frequency Energy Protection). (See NOTE 12)

Equivalent Safety Items:

- (1) Out-of-trim characteristics § 25.255
- (2) Pilot compartment view § 25.773(b)(2)
- (3) Passenger compartment door § 25.813(e)
- (4) Emergency exit marking §§ 25.811(d)(1) and 25.811(d)(2)

Application for amended Type Certificate dated February 18, 1988.

Regulation at a later amendments for components and areas affected by the change (Ref. FAA approved Compliance Check List):

Subpart A - General : 25.2(25-99)

Subpart B - Flight: 25.207(25-121), 25.255(25-42)

Subpart C - Structure: 25.571 (25-96)

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



United States Of America  
Department of Transportation - Federal Aviation Administration

# Supplemental Type Certificate

(Continuation Sheet)

Number ST02371LA

*Certification Basis (continued)*

**Subpart D – Design and Construction:** 25.603(25-46), 25.605(25-46), 25.611(25-123), 25.613(25-112), 25.625(25-72), 25.832(25-72), 25.863(25-46), 25.869(25-123),

**Subpart E – Powerplant:** 25.901(25-46), 25.903(25-100), 25.951(25-73), 25.961(25-57), 25.981(25-125), 25.994(25-57), 25.997(25-57), 25.1013(25-72), 25.1019(25-57), 25.1021(25.57), 25.1043(25-42), 25.1045(25-57), 25.1091(25-100), 25.1093(25-72), 25.1103(25-46), 25.1141(25-115), 25.1143(25-57), 25.1163(25-57), 25.1165(25-72), 25.1181(25-115), 25.1183(25-101), 25.1185(25-94), 25.1189(25-57), 25.1195(25-46), 25.1203(25-123), 25.1207(25-46).

**Subpart F – Equipment:** 25.1301(25-123), 25.1305(25-115), 25.1307(25-72), 25.1309(25-123), 25.1316(25-80), 25.1317(25-122), 25.1321(25-41), 25.1331(25-41), 25.1351(25-72), 25.1353(25-123), 25.1357(25-123), 25.1381(25-72), 25.1431(25-113), 25.1438(25-41),

**Subpart G – Operating Limitations and Information:** 25.1501(25-42), 25.1521(25-72), 25.1527(25-105), 25.1529(25-54), 25.1543(25-72), 25.1549(25-40), 25.1551(25-72), 25.1557(25-72), 25.1581(25-72), 25.1583(25-105).

**Subpart H - Electrical Wiring interconnection Systems (EWIS):** 25.1701(25-123), 25.1703(25-123), 25.1705(25-123), 25.1707(25-123), 25.1709(25-123), 25.1711(25-123), 25.1713(25-123), 25.1715(25-123), 25.1717(25-123), 25.1719(25-123), 25.1721(25-123), 25.1723(25-123), 25.1725(25-123), 25.1727(25-123), 25.1729(25-123), 25.1731(25-123), 25.1733(25-123).

**14 CFR Part 34 (34-3):** 34.11

**14 CFR Part 36 (36-28):** 36.1--36.7, 36.101--36.105, 36.1501, 36.1581.

The following Nextant Aerospace Continued Airworthiness Supplements are applicable to airplanes modified in accordance with this STC:

- Master Minimum Equipment List document No. MMEL Rev. 8, dated 02/21/2011 or later FAA approved revisions.
- EWIS (Electrical Wiring Interconnection Systems) Inspection Procedure/Report No. NXT1-EA-007 Rev A dated 8/24/11 or later FAA approved revisions.

-END-

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





U.S. Department of  
Transportation  
Federal Aviation  
Administration

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

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

Electronic Tracking Number

For FAA Use Only

**INSTRUCTIONS:** Print or type all entries. See 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	Nationality and Registration Mark <b>N493LX</b>		Serial No.	<b>RK 244</b>	
	Make <b>Raytheon Aircraft Company</b>		Model	<b>400A</b>	Series
2. Owner	Name (As shown on registration certificate) <b>Flight Options .LLC</b>		Address (As shown on registration certificate)		
			Address		
			City	<b>Richmond Heights</b>	State, OH
			Zip	<b>44143-1453</b>	Country
3. For FAA Use Only					

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial Number
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement					
A. Agency's Name and Address			B. Kind of Agency		
Name	Nextant Aerospace		<input type="checkbox"/> U.S. Certificated Mechanic	<input type="checkbox"/> Manufacturer	
Address			<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.	
City	Cleveland	State, OH	<input checked="" type="checkbox"/> Certificated Repair Station		
Zip	44143-1453	Country	<input type="checkbox"/> Certificated Maintenance Organization	CRS # 25NR667B	

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

Extended range fuel  
per 14 CFR Part 43  [Redacted] 12/29/2013  
App. B [Redacted]

7. Approval for Return to Service					
Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport	
	FAA Designee	<input checked="" type="checkbox"/>	Repair Station	Inspection Authorization	Other (Specify)
Certificate or Designation No. CRS # 25NR667B					12/29/2013



## 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.)

N493LX

12/29/2013

Nationality and Registration Mark

Date

Installed the following In-Flight Entertainment System in accordance with STC # ST03960AT and in accordance with Nextant Aerospace Master Drawing List DB1002067. Revision F.05 Dated: October 9, 2013.

Installed Bonner Cabin LED Lighting System without the Venue System in accordance with NX330-1304002. Rev B Dated October 17, 2013. Ref. drawing for parts list.

ICA Requirements.

Ref FAA Order 8100.17

Page 7-5 and 7-6

Use FAA publications such as AC 43.13-1, Acceptable Methods, Techniques, and Practices—Aircraft Inspection and Repair, and AC 43.13-2, Acceptable Methods, Techniques, and Practices—Aircraft Alterations; part 43 appendix D; or other applicable aviation standards.

Installed Iridium Sat Comm (Cockpit Phone only) and Broadband Internet System with Aircell Axxess II and ATG 4000 in Accordance with DB 1001013. Rev E

ICA for Aircell System Ref to Nextant Aerospace Document No DB1105003. Rev A dated September 22 2011 or later FAA Accepted Revisions

The following manuals contain complete detailed maintenance instructions and should be consulted for all maintenance activities not covered within this ICA:

Aircell Axxess II Installation Manual D12004 Revision E, dated March 2010 or later applicable revision

Aircell ATG-4000 Installation Manual D13485 Revision B Dated November 2009 or later applicable revision

Aircell Axxess II WLAN AFM Supplement DB1002072 Rev IR dated March 22 2012 for the has been Installed in the AFM

Installed the Astronics DC-AC 115 VAC Power Supply in Accordance with DB1002067 Rev F.04 Dated 10/9/2013

This is Located under the Seat Divan

ICA for Astronics 115 VAC Cabin Inverter Ref to Nextant Aerospace Report No DB1108018 Rev IR Date 9/22/2011 or later FAA Accepted Revision.

Aircraft Flight Supplement DB1109012 has been installed on the Aircraft

See Current Weight and Balance Dated: December 29, 2013

End.....

Additional Sheets Are Attached



United States of America  
Department of Transportation -- Federal Aviation Administration

# Supplemental Type Certificate

Number ST03960AT

This certificate issued to  
Nextant Aerospace LLC  
[REDACTED]  
West Palm Beach, FL 33406

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations.

Original Product - Type Certificate Number : A16SW  
Make : Hawker Beechcraft Corporation  
Model : 400A

Description of Type Design Change:

Installation of Rockwell Collins Venue In-Flight Entertainment(IFE), Aircell Axxess Cabin II Iridium Phone and High Speed Internet System with Wireless Local Area Network (WLAN) Astronics 115VAC 60HZ Cabin Inverter, and Emtek LED Cabin Lighting System in accordance with Nextant Aerospace LLC, Master Drawing List DB1002067, Revision E, dated January 26, 2012, or later FAA approved revision.

Limitations and Conditions: This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated, unless it is determined by the installer that the interrelationship between this change and any other previously approved modifications will produce no adverse effect upon the airworthiness of that airplane. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application : July 28, 2012

Date reissued :

Date of issuance : March 22, 2012

Date amended :



Manager  
Atlanta Aircraft Certification Office

*By direction of the Administrator*  
[REDACTED]



United States of America  
Department of Transportation - Federal Aviation Administration

# Supplemental Type Certificate

(Continuation Sheet)

*Number* ST03960AT

When the Rockwell Collins Venue system is installed Airplane Flight Manual Supplement, DB1106015, Revision A, dated March 22, 2012, or later FAA approved revision, is required.

When the Aircell Axxess II system is installed Airplane Flight Manual Supplement, DB1002072, Revision IR, dated March 22, 2012, or later FAA approved revision, is required.

When the Astronics Cabin Inverter system is installed Airplane Flight Manual Supplement, DB1109012, Revision IR, dated March 22, 2012, or later FAA approved revision, is required.

This system is intended to provide internet connection and email services to the airplane's cabin using portable electronic devices (PEDs). Any other intended function of this equipment will require a re-examination of the certification basis.

When the Rockwell Collins Venue system is installed Instructions for Continued Airworthiness (ICA), Nextant Aerospace Document No. DB1002068, Rev IR, dated September 22, 2011, or later FAA accepted revisions must be made available to the operator at the time of installation.

When the Aircell Axxess II system is installed Instructions for Continued Airworthiness (ICA), Nextant Aerospace Document No. DB1105003, Rev A, dated September 22, 2011, or later FAA accepted revisions must be made available to the operator at the time of installation.

When the Astronics Cabin Inverter system is installed Instructions for Continued Airworthiness (ICA), Nextant Aerospace Document No. DB1108018, Rev IR, dated September 22, 2011, or later FAA accepted revisions must be made available to the operator at the time of installation.

When the Emteq LED Cabin Lighting system is installed Instructions for Continued Airworthiness (ICA), Nextant Aerospace Document No. DB1108019, Rev IR, dated September 22, 2011, or later FAA accepted revisions must be made available to the operator at the time of installation.



United States of America  
Department of Transportation - Federal Aviation Administration  
**Supplemental Type Certificate**  
(Continuation Sheet)

*Number* ST03960AT

*Certification Basis:*

The Certification Basis for this installation is per Type Certificate Data Sheet A16SW original Certification Basis, Federal Aviation Regulation (FAR), Part 25 as amended by Amendment 25-1 through 25-40 plus FAR 25.1335, 25.1351(d), 25.1353(c)(5), and 25.1447 of Amendment 25-41; FAR 25.29, FAR 25.255, and FAR 25.1353(c)(6) of Amendment 25-42; and FAR 25.361(b) and 25.1329(h) of Amendment 25-46.

In addition the following specified rules amendment levels were used for this installation.

25.571 [25-54]	25.1353(a)(c) [25-123]	25.1357 [25-123]	25.1431 [25-113]	25.1529 [25-54]
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[-] Indicates amendment level

-----END-----





U.S. Department of  
Transportation  
Federal Aviation  
Administration

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

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

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See 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	Nationality and Registration Mark <b>N493LX</b>		Serial No. <b>RK244</b>	
	Make <b>Raytheon Aircraft Company</b>		Model <b>400A</b>	Series
2. Owner	Name (As shown on registration certificate) <b>Flight Options, LLC</b>		Address (As shown on registration certificate) Address [REDACTED] City <b>Richmond Heights</b> State <b>Ohio</b> Zip <b>44143-1453</b> Country <b>USA</b>	

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial Number
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in item 1 above)	
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT	_____	_____	
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER	_____	_____	
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type	_____	
			Manufacturer	_____	

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency			
Name <b>Constant Aviation</b> Address [REDACTED] City <b>Cleveland</b> State <b>Ohio</b> Zip <b>44135</b> Country <b>United States</b>		<input type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Manufacturer <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> C. Certificate No. <input checked="" type="checkbox"/> Certificated Repair Station <input type="checkbox"/> CRS#WC7R346J <input type="checkbox"/> Certificated Maintenance Organization			

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

Extended range fuel per 14 CFR Part 43 App. B	<input type="checkbox"/>	Signature/Date of Authorization/Initials	Date: December 30, 2013
---	--------------------------	--	-------------------------

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

BY	FAA Fit Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport
	FAA Designee	<input checked="" type="checkbox"/> Repair Station	Inspection Authorization	Other (Specify)
Certificate or Designation No. <b>CRS#WC7R346J</b>		Signature/Date of Approval [REDACTED]		

Date: December 30, 2013



## 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.)

N493LX

12/30/2013

Nationality and Registration Mark

Date

### ACCOMPLISHED INTERIOR REFURBISHMENT/MODIFICATION AND 3 PLACE DIVAN INSTALLATION

#### THE FOLLOWING AIRCRAFT INTERIOR ITEMS HAVE BEEN REFURBISHED:

Replaced, recovered control columns with Matte Black Leather Accordance with Beechjet 400A AMM 20-70-00-701, 25-00-00-001  
Removed and Replaced Glare shield and Eyebrow panel material with Matte Black Leather in Accordance with Beechjet 400A AMM 20-60-00-201.  
Removed and Replaced Cockpit Slidewall material with Matte Black Leather in Accordance with Beechjet 400A AMM 20-60-00-201.  
Removed and replaced Pilot Seat Part Number TABH100PM0001 Serial Number 62, Foam and recovered with Garrett Sheepskin Oak and Excell Cappuccino Leather.  
Removed and replaced Co-Pilot Seat Part Number TABH100CM00-01 Serial Number 246, Foam and recovered with Garrett Sheepskin Oak and Excell Cappuccino Leather.  
Removed and Replaced Left Hand #4 Passenger Seat Part Number 2524-014(-530A) Serial Number 990719-4 Foam and recovered with Townsend Leather (Heritage Brown)  
Removed and replaced Right Hand #5 Passenger Seat Part Number 2524-014(-530B) Serial Number 990426-7 Foam and recovered with Townsend Leather(Heritage Brown)  
Removed and Replaced Left Hand #6 Passenger Seat Part Number 2524-014(530B)Serial Number 030618-6 Foam and recovered with Townsend Leather (Heritage Brown)  
Removed and replaced Right Hand #7 Passenger Seat Part Number 2524-014(530A) Serial Number 030708-2 Foam and recovered with Townsend Leather (Heritage Brown)

#### THE FOLLOWING MANUALS AND APPROVED DATA HAVE BEEN UTILIZED FOR BASIS OF REFURBISHMENT:

Skandia Flammability Test S254976 as approved by FAA DER Jane Biberstein (DERT-832780-CE) on FAA form 8110-3 dated 4/23/2013.

Flame Out Flammability Test 4311 as approved by FAA DER Herb Reed II (DERT-230293-CE) on FAA Form 8110-3 dated 12/23/2013.

Skandia Flammability Test report TP 22681 Rev A as approved by FAA DER Jane Biberstein (DERT-832780-CE) on FAA Form 8110-3 dated 05/02/2013.

#### Three Place Divan installation:

Installed (3) place divan part Number 32-0396(A60PT)T123.KO2 S/N 003702 In Accordance with Aviation Fabricators STC# ST01572WI and Skandia Flammability test report S254976 per Jane Biberstein FAA DER (DERT-832780-CE) dated 4/23-2013

#### THE FOLLOWING INTERIOR ITEMS HAVE BEEN MODIFIED:

L/H Galley Assy, R/H Galley Assy, Divan Assy. L/H Galley Assy and Install per Delta G drawing DGD-CA01-101 Rev D, DGD-CA01-101 EO E-1, L/H Galley Install DGD-CA01-501 Rev EO A-1, DGD-CA01-501 Rev IR as approved on FAA form 8110-3 per FAA DER Donald Gillespie (DERT-750135-SW) dated March 25 2013. R/H Galley Assy and Install per Delta G drawings DGD-CA02-101 Rev B, DGD-CA02-501 Rev IR as approved on FAA form 8110-3 by FAA DER Donald Gillespie (DERT-750135-SW) dated March 25, 2013. Divan Assy per Delta G drawings DGD-CA09-101 Rev C and DGD-CA09-101 EO D-1 as approved on FAA form 8110-3 per FAA DER Donald Gillespie (DERT 750135-SW) dated March 25, 2013, Bonner Kit Sidewall assy drawing 2553-0038 Rev C, Bonner Sideledge assy drawing 2552-0002 Rev C, Bonner Kit Foldout Table assy drawings 2553-0041 Rev C and 2553-0040 Rev B, Bonner XTI liner Kit Instl drawing 2553-0037 Rev C as approved on FAA form 8110-3 per Stephen Formess DERT-230238-CE dated Dec 26, 2013.

#### INSTRUCTIONS FOR CONTINUED AIRWORTHINESS:

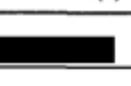
THE REMOVAL OF THE INTERIOR IS ON THE CONDITION OF FAILURE. THERE ARE NO ADDITIONAL INSPECTIONS REQUIRED. CONTINUE TO INSPECT IAW MANUFACTURERS AMM, SRM, OR CMM AS APPLICABLE

AIRCRAFT EQUIPMENT LIST AND WEIGHT AND BALANCE WERE UPDATED BY THE CUSTOMER

END

Additional Sheets Are Attached



U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION <b>STATEMENT OF COMPLIANCE WITH THE FEDERAL AVIATION REGULATIONS</b>				DATE Dec 26, 2013
<b>AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION</b>				
MAKE Beechcraft Corporation	MODEL 400A	TYPE (Airplane, Radio, Helicopter, etc.) AIRPLANE	NAME OF APPLICANT NEXTANT Aerospace Cleveland OH.	
<b>LIST OF DATA</b>				
IDENTIFICATION	TITLE			
<b>REPORT:</b>  RKG3282 Rev. IR, 8-28-2013	BEECHJET 400A INTERIOR STRUCTURAL SUBSTANTIATION			
2553-0037 Rev C, dated 8-30-2013	BEECHJET 400A XTI LINER KIT INSTL.  <b>Beechjet 400A, Aircraft Serial No. RK-244</b>  Certification Bases for this aircraft modification is per Type Certificate Number A16SW Revision 28 dated April 12,2013			
<b>PURPOSE OF DATA</b> DESCRIBE AND SHOW VERIFICATIONS FOR NEXTANT INTERIOR INSTALLATION ON BEECHJET 400A, AIRCRAFT SERIAL NO. RK-244				
<b>APPLICABLE REQUIREMENTS</b> (List specific sections)  14 CFR Part 25 §.301, 303, 305, 307a), 365, 561, 571, 601, 603, 605, 609, 613				
<b>CERTIFICATION</b> - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under Part 183 of the Federal Aviation Regulations, data listed above and on attached sheets numbered _____ have been examined in accordance with established procedures and found to comply with applicable requirements of the Federal Aviation Regulations.				
I <input checked="" type="checkbox"/> Therefore	<input type="checkbox"/> Recommend approval of these data <input checked="" type="checkbox"/> Approve these data			
SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S)		DESIGNATION NUMBER(S)	CLASSIFICATION(S)	
 		DERT-230238-CE	STRUCTURES AND DAMAGE TOLERANCE	





U.S. Department of  
Transportation  
Federal Aviation  
Administration

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

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

Electronic Tracking Number

For FAA Use Only

**INSTRUCTIONS:** Print or type all entries. See 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	Nationality and Registration Mark <b>N493LX</b>		Serial No. <b>RK 244</b>
	Make <b>Raytheon Aircraft Company</b>	Model <b>400A</b>	Series
2. Owner	Name (As shown on registration certificate) <b>Flight Options .LLC</b>		Address (As shown on registration certificate)
	Address	City <b>Richmond Heights</b>	State. OH <b>OH</b>
	Zip <b>44143-1453</b>	Country <b>USA</b>	

**3. For FAA Use Only**

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial Number
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT	_____	_____	
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER	_____	_____	
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type	_____	
			Manufacturer	_____	

**6. Conformity Statement**

A. Agency's Name and Address		B. Kind of Agency			
Name <b>Nextant Aerospace</b>	Address [REDACTED]	<input type="checkbox"/> U.S. Certificated Mechanic	<input type="checkbox"/> Manufacturer		
City <b>Cleveland</b>	State. OH [REDACTED]	<input type="checkbox"/> Foreign Certificated Mechanic	<input type="checkbox"/> C. Certificate No.		
Zip <b>44143-1453</b>	Country <b>USA</b>	<input checked="" type="checkbox"/> Certificated Repair Station	CRS # <b>25NR667B</b>		
<input type="checkbox"/> Certificated Maintenance Organization					

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

Extended range fuel per 14 CFR Part 43 App. B	<input type="checkbox"/>	[REDACTED]	12/29/2013
---	--------------------------	------------	------------

**7. Approval for Return to Service**

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport	
	FAA Designee	X Repair Station	Inspection Authorization	Other (Specify)	
Certificate or Designation No. <b>CRS # 25NR667B</b>		12/29/2013			



**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.)

N493LX

12/29/2013

Nationality and Registration Mark

Date

Installed the following In-Flight Entertainment System in accordance with STC # ST03960AT and in accordance with Nextant Aerospace Master Drawing List DB1002067. Revision F.05 Dated: October 9, 2013.

Installed Bonner Cabin LED Lighting System without the Venue System in accordance with NX330-1304002. Rev B Dated October 17, 2013. Ref. drawing for parts list.

ICA Requirements.

Ref FAA Order 8100.17

Page 7-5 and 7-6

Use FAA publications such as AC 43.13-1, Acceptable Methods, Techniques, and Practices—Aircraft Inspection and Repair, and AC 43.13-2, Acceptable Methods, Techniques, and Practices—Aircraft Alterations; part 43 appendix D; or other applicable aviation standards.

Installed Iridium Sat Comm (Cockpit Phone only) and Broadband Internet System with Aircell Axxess II and ATG 4000 in Accordance with DB 1001013. Rev E

ICA for Aircell System Ref to Nextant Aerospace Document No DB1105003. Rev A dated September 22 2011 or later FAA Accepted Revisions

The following manuals contain complete detailed maintenance instructions and should be consulted for all maintenance activities not covered within this ICA:

Aircell Axxess II Installation Manual D12004 Revision E, dated March 2010 or later applicable revision

Aircell ATG-4000 Installation Manual D13485 Revision B Dated November 2009 or later applicable revision

Aircell Axxess II WLAN AFM Supplement DB1002072 Rev IR dated March 22 2012 for the has been Installed in the AFM

Installed the Astronics DC-AC 115 VAC Power Supply in Accordance with DB1002067 Rev F.04 Dated 10/9/2013

This is Located under the Seat Divan

ICA for Astronics 115 VAC Cabin Inverter Ref to Nextant Aerospace Report No DB1108018 Rev IR Date 9/22/2011 or later FAA Accepted Revision.

Aircraft Flight Supplement DB1109012 has been installed on the Aircraft

See Current Weight and Balance Dated: December 29, 2013

.....End.....

Additional Sheets Are Attached



United States of America  
Department of Transportation -- Federal Aviation Administration

# Supplemental Type Certificate

Number ST03960AT

This certificate issued to  
Nextant Aerospace LLC  
3800 Southern Blvd.  
West Palm Beach, FL 33406

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations.

Original Product - Type Certificate Number: A16SW

Make: Hawker Beechcraft Corporation

Model: 400A

## Description of Type Design Change:

Installation of Rockwell Collins Venue In-Flight Entertainment(IFE), Aircell Axxess Cabin II Iridium Phone and High Speed Internet System with Wireless Local Area Network (WLAN) Astronics 115VAC 60HZ Cabin Inverter, and Emteq LED Cabin Lighting System in accordance with Nextant Aerospace LLC, Master Drawing List DB1002067, Revision E, dated January 26, 2012, or later FAA approved revision.

**Limitations and Conditions:** This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated, unless it is determined by the installer that the interrelationship between this change and any other previously approved modifications will produce no adverse effect upon the airworthiness of that airplane. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: July 28, 2012

Date reissued:

Date of issuance: March 22, 2012

Date amended:



Manager  
Atlanta Aircraft Certification Office



United States of America  
Department of Transportation - Federal Aviation Administration  
**Supplemental Type Certificate**  
(Continuation Sheet)

*Number* ST03960AT

When the Rockwell Collins Venue system is installed Airplane Flight Manual Supplement, DB1106015, Revision A, dated March 22, 2012, or later FAA approved revision, is required.

When the Aircell Axxess II system is installed Airplane Flight Manual Supplement, DB1002072, Revision IR, dated March 22, 2012, or later FAA approved revision, is required.

When the Astronics Cabin Inverter system is installed Airplane Flight Manual Supplement, DB1109012, Revision IR, dated March 22, 2012, or later FAA approved revision, is required.

This system is intended to provide internet connection and email services to the airplane's cabin using portable electronic devices (PEDs). Any other intended function of this equipment will require a re-examination of the certification basis.

When the Rockwell Collins Venue system is installed Instructions for Continued Airworthiness (ICA), Nextant Aerospace Document No. DB1002068, Rev IR, dated September 22, 2011, or later FAA accepted revisions must be made available to the operator at the time of installation.

When the Aircell Axxess II system is installed Instructions for Continued Airworthiness (ICA), Nextant Aerospace Document No. DB1105003, Rev A, dated September 22, 2011, or later FAA accepted revisions must be made available to the operator at the time of installation.

When the Astronics Cabin Inverter system is installed Instructions for Continued Airworthiness (ICA), Nextant Aerospace Document No. DB1108018, Rev IR, dated September 22, 2011, or later FAA accepted revisions must be made available to the operator at the time of installation.

When the Emteq LED Cabin Lighting system is installed Instructions for Continued Airworthiness (ICA), Nextant Aerospace Document No. DB1108019, Rev IR, dated September 22, 2011, or later FAA accepted revisions must be made available to the operator at the time of installation.



United States of America  
Department of Transportation - Federal Aviation Administration  
**Supplemental Type Certificate**  
(Continuation Sheet)

*Number* ST03960AT

*Certification Basis:*

The Certification Basis for this installation is per Type Certificate Data Sheet A16SW original Certification Basis, Federal Aviation Regulation (FAR), Part 25 as amended by Amendment 25-1 through 25-40 plus FAR 25.1335, 25.1351(d), 25.1353(c)(5), and 25.1447 of Amendment 25-41; FAR 25.29, FAR 25.255, and FAR 25.1353(c)(6) of Amendment 25-42; and FAR 25.361(b) and 25.1329(h) of Amendment 25-46.

In addition the following specified rules amendment levels were used for this installation.

25.571 [25-54]	25.1353(a)(c) [25-123]	25.1357 [25-123]	25.1431 [25-113]	25.1529 [25-54]
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[-] Indicates amendment level

-----END-----



Nextant Aerospace LLC

████████████████████  
West Palm Beach FL 33406

Report No: DB1002067  
Revision F.05

**Master Drawing List**

**Document Number: DB1002067**

**Revision: F.05 10/18/2013**

**In-Flight Entertainment**

**HAWKER BEECHCRAFT 400A Aircraft**

**FAA STC ST03960AT**

Approved By ██████████ Date 1-4-2013





U.S. Department of  
Transportation  
Federal Aviation  
Administration

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

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

Electronic Tracking Number

For FAA Use Only

**INSTRUCTIONS:** Print or type all entries. See 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	Nationality and Registration Mark <b>N493LX</b>		Serial No.	<b>RK 244</b>	
	Make <b>Raytheon Aircraft Company</b>	Model <b>400A</b>	Series		
2. Owner	Name (As shown on registration certificate) <b>Flight Options LLC</b>		Address (As shown on registration certificate)		
	Address	City <b>Richmond Heights</b>		State. OH	
	Zip <b>44143-1453</b>	Country	<b>USA</b>		

**3. For FAA Use Only**

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial Number
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type	_____	_____
			Manufacturer		

**6. Conformity Statement**

A. Agency's Name and Address		B. Kind of Agency			
Name	Nextant Aerospace		<input type="checkbox"/> U.S. Certificated Mechanic	<input type="checkbox"/> Manufacturer	
Address	[REDACTED]		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.	
City	Cleveland	State. OH	<input checked="" type="checkbox"/> Certificated Repair Station	CRS # 25NR667B	
Zip	44143-1453	Country USA	<input type="checkbox"/> Certificated Maintenance Organization		

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

Extended range fuel per 14 CFR Part 43 App. B	<input type="checkbox"/>	[REDACTED]	12/29/2013
---	--------------------------	------------	------------

**7. Approval for Return to Service**

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

BY	FAA Fit Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport
	FAA Designee	<input checked="" type="checkbox"/> Repair Station	Inspection Authorization	Other (Specify)
Certificate or Designation No. CRS # 25NR667B		[REDACTED]		
		12/29/2013		



**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.)

N493LX

12/29/2013

Nationality and Registration Mark

Date

**Upper Aft Baggage Panel Mod**

Modified Baggage Ceiling Panel to Accommodate the Engine FADEC wire harness.

1. Fabricated two panel pieces, N251103-001 and N251103-002.
2. Installed N251103-001 to existing baggage compartment structure 128-440095-1 using two screws and install N251103-002 as shown with a trim to fit honeycomb piece fabricated from interiors using potted inserts.
3. Attached honeycomb baggage panel to N251103-001 in upper aft baggage area using three 40S5-21 Camloc quarter- turn fasteners and 214-16D receptacles. Secured N251203-002 to existing upper aft baggage panel with two Camloc 40S5-21 quarter - turn fasteners and 214-16D receptacles.

See attached FAA Form 8110-3 Signed by DERT-410115-CE [REDACTED] on February 12, 2013 using Nextant Aerospace Engineering Order EO 029. Rev E Dated February 8, 2013

ICA

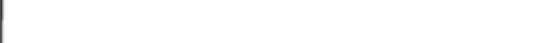
Weight change is Negligible.

Continue with Beechjet 400/400A Maintenance Manual Inspection Procedures for this Area

End.....

 Additional Sheets Are Attached



U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION <b>STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS</b>				1. DATE February 12, 2013
<b>AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION</b>				
2. MAKE Hawker Beechcraft Corporation	3. MODEL NO. 400A	4. TYPE (Aircraft, Engine, Propeller, etc.) Aircraft	5. NAME OF APPLICANT Nextant Aerospace LLC Richmond Heights, Ohio	
<b>LIST OF DATA</b>				
6. IDENTIFICATION  EO 029 Rev. E February 8, 2013	7. TITLE  Upper Aft Baggage Panel Mod.  -----END-----			
Notes: 1) The structural aspects only of the above listed data are approved herein. This approval is only for the engineering data. It indicates the data listed above demonstrates compliance only with the regulations specified by paragraph and subparagraph listed below as "Applicable Requirements." 2) This form constitutes FAA approval of all the engineering data necessary for substantiation of compliance to necessary requirements for the entire alteration.				
8. PURPOSE OF DATA: Engineering data in support of major alteration to Hawker Beechcraft 400A, S/N RK-244.				
9. APPLICABLE REQUIREMENTS (List specific sections) CFR Title 14 Part 25.301[25-23], 25.303[25-23], 25.305(a)(b)(c)[25-23], 25.307(a)[25-23], 25.562(c)[25-23], 25.601[25-00], 25.603(a)(b)(c)[25-38], 25.605(a)[25-00], 25.607[25-23], 25.609(a)(b)[25-00], 25.611[25-23], 25.613(a)(b)(c)[25-00], 25.619[25-23], 25.625(a)(b)(c)[25-23], and 25.789[25-32].				
10. CERTIFICATION - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under 14 CFR Part 183, data listed above and on attached sheets numbered <u>N/A</u> have been examined in accordance with established procedures and found to comply with applicable requirements of the Airworthiness Standards Listed.				
<input type="checkbox"/> <b>Recommend approval of these data</b> I (We) Therefore <input checked="" type="checkbox"/> <b>Approve these data</b>				
11. SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S)	12. DESIGNATION NUMBERS(S)	13. CLASSIFICATION(S)		
		DERT-410115-CE		
				
				





U.S. Department of  
Transportation  
Federal Aviation  
Administration

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

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

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See 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	Nationality and Registration Mark N493LX		Serial No.	RK 244	
	Make Raytheon Aircraft Company		Model	400A	Series
2. Owner	Name (As shown on registration certificate) Flight Options LLC		Address (As shown on registration certificate) Address [REDACTED] City Richmond Heights State, OH Zip 44143-1453 Country USA		

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial Number
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency			
Name	Nextant Aerospace	<input type="checkbox"/>	U.S. Certificated Mechanic	<input type="checkbox"/>	Manufacturer
Address	[REDACTED]	<input type="checkbox"/>	Foreign Certificated Mechanic	<input type="checkbox"/>	C. Certificate No.
City	Cleveland	<input checked="" type="checkbox"/>	Certificated Repair Station	CRS # 25NR667B	
Zip	44143-1453	<input type="checkbox"/>	Certificated Maintenance Organization		

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

Extended range fuel per 14 CFR Part 43 App. B	<input type="checkbox"/>	[REDACTED]	12/29/2013
---	--------------------------	------------	------------

7. Approval for Return to Service

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

BY	FAA Fit Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport
	FAA Designee	X Repair Station	Inspection Authorization	Other (Specify)
Certificate or Designation No. CRS # 25NR667B				12/29/2013



**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.)

N493LX

12/29/2013

Nationality and Registration Mark

Date

Installed New Pitot Probes in accordance with STC ST10159SC. Nextant Aerospace Master Drawing List Document 373-00-0001 Rev CC EO24-11

Removed Pitot Probes Part Number PH1100-MU-R-1

Removed Pitot Probes Part Number PH1100-MU-L-1

Installed Pitot Probes Part Number PH1100-MUR-EN Serial Number 1975803

Installed Pitot Probe Part Number PH1100-MUL-EN Serial Number 1728401

Leak Check carried out IAW Beechcraft Aircraft Maintenance Manual Chapter 34-12-00-201.

ICA

Continue with Normal Hawker Beech Maintenance Practices for this Area

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  
11/30/2007

Electronic Tracking Number

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. 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	Nationality and Registration Mark <b>N493LX</b>		Serial No.	RK 244	
	Make <b>Raytheon Aircraft Company</b>		Model	400A	Series
2. Owner	Name (As shown on registration certificate) <b>Flight Options .LLC</b>		Address (As shown on registration certificate) Address _____ City <b>Richmond Heights</b> State. <b>OH</b> Zip <b>44143-1453</b> Country <b>USA</b>		

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial Number
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AIRFRAME	_____	(As described in item 1 above) _____	
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name <b>Nextant Aerospace</b>		<input type="checkbox"/> U.S. Certificated Mechanic	<input type="checkbox"/> Manufacturer
Address _____		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No. _____
City <b>Cleveland</b>	State, <b>OH</b>	<input checked="" type="checkbox"/> Certificated Repair Station	CRS # <b>25NR667B</b>
Zip <b>44143-1453</b>	Country <b>USA</b>	<input type="checkbox"/> Certificated Maintenance Organization	

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

Extended range fuel  
per 14 CFR Part 43  
App. B

12/29/2013

7. Approval for Return to Service

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

BY	FAA Fit Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport
	FAA Designee	X Repair Station	Inspection Authorization	Other (Specify) _____
Certificate or Designation No. <b>CRS # 25NR667B</b>		12/29/2013		



**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.)*

N493LX

12/29/2013

Nationality and Registration Mark

Date

**Provisions for J9107 in Cockpit Sidewall at FS122.735**

Added Mount provisions for J9107 in bracket assy. 45A88588-3 at Flight Station 122.735 provided in Structure Repair Manual Document 53-20-05-001. Use receptacle MS3470W18.

See attached FAA Form 8110-3 Signed By DERT-410115-CE [REDACTED]. Dated December 28, 2012 using Nextant Aerospace Engineering Order 115-12 Rev C, Dated November 27, 2012 for details.

ICA

Weight change is Negligible.

Continue with Beechjet 400/400A Maintenance Manual Inspection Procedures.

.....End.....

 Additional Sheets Are Attached



U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION <b>STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS</b>				1. DATE December 28, 2012
<b>AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION</b>				
2. MAKE  Hawker Beechcraft Corporation	3. MODEL NO.  400A	4. TYPE (Aircraft, Engine, Propeller, etc.)  Aircraft	5. NAME OF APPLICANT  Nextant Aerospace LLC Richmond Heights, Ohio	
<b>LIST OF DATA</b>				
6. IDENTIFICATION  EO 115-12 Rev. C November 27, 2012		7. TITLE  Mount Provisions for J9107.		
-----END-----				
Notes: 1) The structural aspects only of the above listed data are approved herein. This approval is only for the engineering data. It indicates the data listed above demonstrates compliance only with the regulations specified by paragraph and subparagraph listed below as "Applicable Requirements." 2) This form constitutes FAA approval of all the engineering data necessary for substantiation of compliance to necessary requirements for the entire alteration.				
8. PURPOSE OF DATA: Engineering data in support of major alteration to Hawker Beechcraft 400A, S/N RK-244.				
9. APPLICABLE REQUIREMENTS (List specific sections) CFR Title 14 Part 25.301[25-23], 25.303[25-23], 25.305(a)(b)(c)[25-23], 25.307(a)[25-23], 25.601[25-00], 25.603(a)(b)(c)[25-38], 25.605(a)[25-00], 25.607[25-23], 25.609(a)(b)[25-00], 25.611[25-23], 25.613(a)(b)(c)[25-00], 25.619[25-23], and 25.625(a)(b)(c)[25-23].				
10. CERTIFICATION - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under 14 CFR Part 183, data listed above and on attached sheets numbered <u>N/A</u> have been examined in accordance with established procedures and found to comply with applicable requirements of the Airworthiness Standards Listed.				
<input type="checkbox"/> Recommend approval of these data I (We) Therefore <input checked="" type="checkbox"/> Approve these data				
11. SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S)		12. DESIGNATION NUMBER(S)	13. CLASSIFICATION(S)	
 		DERT-410115-CE	Structures	





U.S. Department of  
Transportation  
Federal Aviation  
Administration

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

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

Electronic Tracking Number

For FAA Use Only

**INSTRUCTIONS:** Print or type all entries. See 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	Nationality and Registration Mark <b>N493LX</b>		Serial No. <b>RK 244</b>
	Make <b>Raytheon Aircraft Company</b>	Model <b>400A</b>	Series
2. Owner	Name (As shown on registration certificate) <b>Flight Options .LLC</b>		Address (As shown on registration certificate) Address City Zip Country
			<b>Richmond Heights</b> State, OH <b>44143-1453</b> <b>USA</b>

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial Number
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency			
Name	Nextant Aerospace		<input type="checkbox"/> U.S. Certificated Mechanic	<input type="checkbox"/> Manufacturer	
Address			<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.	
City	Cleveland	State, OH	<input checked="" type="checkbox"/> Certificated Repair Station		
Zip	44143-1453	Country USA	<input type="checkbox"/> Certificated Maintenance Organization	CRS # 25NR667B	

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

Extended range fuel per 14 CFR Part 43 App. B	<input type="checkbox"/>		12/29/2013
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Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is  APPROVED  REJECTED

BY	FAA Fit Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport
	FAA Designee	X Repair Station	Inspection Authorization	Other (Specify)
Certificate or Designation No. CRS # 25NR667B				12/29/2013



## 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.)

N493LX

12/29/2013

Nationality and Registration Mark

Date

Title: Ice Detector Master Caution / Master Warning Light on Constantly

Re-Installed the previously removed components ( Ref S/B 30-2600, Rev 2)

- 1.) Isolation Relay K255 P/N: 50-380048-1
- 2.) Diode CR654, P/N: 132408-22
- 3.) Ground stud GS151A P/N: MS35206-246 (Stud may be marked GS152)  
As shown in chapter 30-01-01-01 of AMM.
- 4.) Wire number corrections on wiring diagram 30-01-01-01 Page 1 correct drawing errors on original drawing. Inspect, verify and correct wiring per EO corrections on EO page 2

See attached FAA Form 8110-3 signed by Daniel Buzz DERT-230019-CE. Dated 8/13/2012 using Nextant Aerospace Engineering Order EO 0130 Rev D. Dated 7/18/2012

ICA

Weight and Balance Changes are Negligible

Continue to Use Existing Beechjet 400/400A Maintenance Manuals Inspection Procedure for this Area

-----END-----

Additional Sheets Are Attached



U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

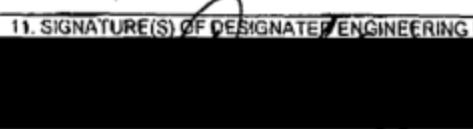
## STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS

1. DATE  
8-13-2012

## AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION

2. MAKE Hawker Beechcraft	3. MODEL NO. 400A S/N RK-244 Only	4. TYPE (Airplane, Radio, Helicopter, etc.) Airplane	5. NAME OF APPLICANT Nextant Aerospace LLC
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## LIST OF DATA

6. IDENTIFICATION  Nextant Aerospace Document 130-12 dated 7-18-12 Rev. D	7. TITLE  Engineering Order Ice Detector MC/MW Light On Constantly	
END This approval is for the electrical systems aspects only.		
8. PURPOSE OF DATA Support major alteration to aircraft Hawker Beechcraft 400A RK-244 Only.		
9. APPLICABLE REQUIREMENTS (List specific sections) 14 CFR 25.1301(a) [Orig]		
Note: Compliance has been found to the amendment levels indicated on Hawker Beechcraft TCDS Revision 26 Part 25 Amendment 25-1 through 25-40 to the above applicable requirements.		
10. CERTIFICATION - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under 14 CFR Part 183 of the Federal Aviation Regulations, data listed above and on attached sheets numbered <u>N/A</u> have been examined in accordance with established procedures and found to comply with applicable requirements of the Airworthiness Standards listed.		
I (We) Therefore approve these data.		
11. SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S)	12. DESIGNATION NUMBER(S)	13. CLASSIFICATION(S)
	DERT-230019-CE	Systems and Equipment





U.S. Department of  
Transportation  
Federal Aviation  
Administration

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

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

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See 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	Nationality and Registration Mark N493LX		Serial No.	RK 244	
	Make Raytheon Aircraft Company		Model	400A	Series
2. Owner	Name (As shown on registration certificate) Flight Options .LLC		Address (As shown on registration certificate) Address _____ City Richmond Heights State. OH Zip 44143-1453 Country USA		

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial Number
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AIRFRAME	_____	(As described in item 1 above) _____	
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name	Nextant Aerospace	<input type="checkbox"/> U.S. Certificated Mechanic	<input type="checkbox"/> Manufacturer
Address	_____	<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No. _____
City	Cleveland	<input checked="" type="checkbox"/> Certificated Repair Station	
Zip	44143-1453	<input type="checkbox"/> Certificated Maintenance Organization	CRS # 25NR667B

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

Extended range fuel per 14 CFR Part 43 App. B	<input type="checkbox"/>	12/29/2013
---	--------------------------	------------

7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport	
	FAA Designee	X Repair Station	Inspection Authorization	Other (Specify) _____	
Certificate or Designation No. CRS # 25NR667B		12/29/2013			



## 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.)*

N493LX

12/29/2013

Nationality and Registration Mark

Date

### Antenna Repair Patch

After removing the forward lower "L" Band Antenna, Instead of removing the Antenna doubler and filling the connector hole with a coin patch and installing nut plate plugs P/N. DB1105020-189-25, the antenna repair doubler P/N. DB104042-001 was installed on the existing antenna doubler and two coin repair patches P/n. DB1104042-002 were installed, one on top of the other to allow for a flush skin repair. The existing nut plate holes were filled with 4 screws P/N. AN525-10R7.

See Attached FAA Form 8110-3 signed by DERT-410115-CE [REDACTED] dated August 15, 2012 using Nextant Aerospace Engineering Order 139-12 Rev C Dated August 03, 2012 for details.

ICA

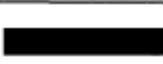
Weight and Balance change is Negligible.

Continue with Beechjet 400/400A Maintenance Manual Inspection Procedures.

.....End.....

Additional Sheets Are Attached



U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION <b>STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS</b>					1. DATE August 15, 2012
<b>AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION</b>					
2. MAKE  Hawker Beechcraft Corporation	3. MODEL NO.  400A	4. TYPE (Aircraft, Engine, Propeller, etc.)  Aircraft	5. NAME OF APPLICANT  Nextant Aerospace LLC Richmond Heights, Ohio		
<b>LIST OF DATA</b>					
6. IDENTIFICATION  EO 139-12 Rev. C August 3, 2012	7. TITLE  Antenna Repair Patch (L-Band Antenna Moved).				
-----END-----					
Notes: <ol style="list-style-type: none"> <li>1) The structural aspects only of the above listed data are approved herein. This approval is only for the engineering data. It indicates the data listed above demonstrates compliance only with the regulations specified by paragraph and subparagraph listed below as "Applicable Requirements."</li> <li>2) This form does not constitute FAA approval of all the engineering data necessary for substantiation of compliance to necessary requirements for the entire alteration. The electrical requirements are not included in this approval and require separate approval.</li> </ol>					
8. PURPOSE OF DATA: Engineering data in support of FAA STC ST03960AT.					
9. APPLICABLE REQUIREMENTS (List specific sections) CFR Title 14 Part 25.301[25-23], 25.303[25-23], 25.305(a)(b)(c)[25-23], 25.307(a)[25-23], 25.365(a)(b)(c)(d)(f)(g)[25-00], 25.562(c)[25-23], 25.601[25-00], 25.603(a)(b)(c)[25-38], 25.605(a)[25-00], 25.607[25-23], 25.609(a)(b)[25-00], 25.611[25-23], 25.613(a)(b)(c)[25-00], 25.619[25-23], 25.625(a)(b)(c)[25-23], and 25.789[25-32].					
10. CERTIFICATION - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under 14 CFR Part 183, data listed above and on attached sheets numbered <u>N/A</u> have been examined in accordance with established procedures and found to comply with applicable requirements of the Airworthiness Standards Listed.					
<input type="checkbox"/> Recommend approval of these data I (We) Therefore <input checked="" type="checkbox"/> Approve these data					
11. SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S)		12. DESIGNATION NUMBERS(S)		13. CLASSIFICATION(S)	
 		DERT-410115-CE		Structures	





U.S. Department of  
Transportation  
Federal Aviation  
Administration

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

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

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See 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	Nationality and Registration Mark <b>N493LX</b>		Serial No.	<b>RK 244</b>	
	Make <b>Raytheon Aircraft Company</b>	Model	400A	Series	
2. Owner	Name (As shown on registration certificate) <b>Flight Options .LLC</b>		Address (As shown on registration certificate) Address <b>[REDACTED]</b> City <b>Richmond Heights</b> State. <b>OH</b> Zip <b>44143-1453</b> Country <b>USA</b>		

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial Number
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above) _____	
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency		
Name	<b>Nextant Aerospace</b>		<input type="checkbox"/> U.S. Certificated Mechanic	<input type="checkbox"/> Manufacturer
Address	<b>[REDACTED]</b>		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City	<b>Cleveland</b>	State. <b>OH</b>	<input checked="" type="checkbox"/> Certificated Repair Station	<b>CRS # 25NR667B</b>
Zip	<b>44143-1453</b>	Country <b>USA</b>	<input type="checkbox"/> Certificated Maintenance Organization	

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

Extended range fuel per 14 CFR Part 43 App. B	<input type="checkbox"/>	<b>[REDACTED]</b>	<b>12/29/2013</b>
---	--------------------------	-------------------	-------------------

7. Approval for Return to Service

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

BY	FAA Fit Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport
	FAA Designee	X Repair Station	Inspection Authorization	Other (Specify) <b>[REDACTED]</b>
Certificate or Designation No. <b>CRS # 25NR667B</b>		<b>[REDACTED]</b>		
		<b>12/29/2013</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.)

N493LX

12/29/2013

Nationality and Registration Mark

Date

**Title: Pedestal cover extension Modification**

After STC modification of pedestal per 373-94-1000\_B, existing pedestal close out tray needs to be extended to cover appropriate areas. Modification of the close out tray is required. Modify the pedestal close out tray per drawing NX251-10002.

See attached FAA Form 8110-3 signed by [REDACTED] DERT - 410115-CE. Dated 11/8/2013 using Nextant Aerospace Engineering Order EO 1018 Rev F. Dated 10/9/2013

ICA

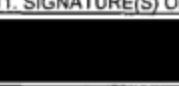
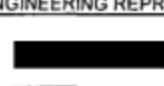
Weight and Balance Changes are Negligible

Continue to Use Existing Beechjet 400/400AMaintenance Manuals Inspection Procedure for this Area

-----END-----

 Additional Sheets Are Attached



U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION <b>STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS</b>					1. DATE November 8, 2013
<b>AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION</b>					
2. MAKE  Hawker Beechcraft Corporation	3. MODEL NO.  400A	4. TYPE (Aircraft, Engine, Propeller, etc.)  Aircraft	5. NAME OF APPLICANT  Nextant Aerospace LLC Cleveland, Ohio		
<b>LIST OF DATA</b>					
6. IDENTIFICATION  EO 1018 Rev. F October 9, 2013	7. TITLE  Pedestal Cover Extension Modification.				
-----END-----					
Notes: <ol style="list-style-type: none"> <li>1) The structural aspects only of the above listed data are approved herein. This approval is only for the engineering data. It indicates the data listed above demonstrates compliance only with the regulations specified by paragraph and subparagraph listed below as "Applicable Requirements."</li> <li>2) This form constitutes FAA approval of all the engineering data necessary for substantiation of compliance to necessary requirements for the entire alteration.</li> </ol>					
8. PURPOSE OF DATA: Engineering data in support of major alteration to Hawker Beechcraft 400A, S/N RK-244.					
9. APPLICABLE REQUIREMENTS (List specific sections) CFR Title 14 Part 25.301[25-23], 25.303[25-23], 25.305(a)(b)(c)[25-23], 25.307(a)[25-23], 25.562(c)[25-23], 25.601[25-00], 25.603(a)(b)(c)[25-38], 25.605(a)[25-00], 25.607[25-23], 25.609(a)(b)[25-00], 25.611[25-23], 25.613(a)(b)(c)[25-00], 25.619[25-23], 25.625(a)(b)(c)[25-23], and 25.789[25-32].					
10. CERTIFICATION - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under 14 CFR Part 183, data listed above and on attached sheets numbered <u>N/A</u> have been examined in accordance with established procedures and found to comply with applicable requirements of the Airworthiness Standards Listed.					
<input type="checkbox"/> Recommend approval of these data I (We) Therefore <input checked="" type="checkbox"/> Approve these data					
11. SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S)		12. DESIGNATION NUMBERS(S)		13. CLASSIFICATION(S)	
 		DERT-410115-CE		Structures	





U.S. Department of  
Transportation  
Federal Aviation  
Administration

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

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

Electronic Tracking Number

For FAA Use Only

**INSTRUCTIONS:** Print or type all entries. See 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	Nationality and Registration Mark <b>N493LX</b>		Serial No. <b>RK 244</b>
	Make <b>Raytheon Aircraft Company</b>	Model <b>400A</b>	Series
2. Owner	Name (As shown on registration certificate) <b>Flight Options .LLC</b>		Address (As shown on registration certificate) Address City Zip
			<b>Richmond Heights</b> State. <b>OH</b> <b>44143-1453</b> Country <b>USA</b>

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial Number
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above) _____	
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT	_____	_____	
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER	_____	_____	
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type	_____	
			Manufacturer	_____	

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency			
Name	Nextant Aerospace		<input type="checkbox"/> U.S. Certificated Mechanic	<input type="checkbox"/> Manufacturer	
Address	[REDACTED]		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.	
City	Cleveland	State. OH	<input checked="" type="checkbox"/> Certificated Repair Station	CRS # 25NR667B	
Zip	44143-1453	Country USA	<input type="checkbox"/> Certificated Maintenance Organization		

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

Extended range fuel  
per 14 CFR Part 43  
App. B  [REDACTED] 12/29/2013

7. Approval for Return to Service

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

BY	FAA Fit Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport
	FAA Designee	X Repair Station	Inspection Authorization	Other (Specify)
Certificate or Designation No. CRS # 25NR667B				12/29/2013

EFTA00011870

**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.)

N493LX

12/29/2013

Nationality and Registration Mark

Date

**DEACTIVATE CLOCKS**

## For Pilots Clock Deactivation:

- 1.) Removed PLT CLOCK circuit breakers from LH FWD CB Panel. Spliced feed wires together. Cap and Stowed Load side wires.
- 2.) At Radio Junction Box:
  - a.) disconnected wire W78-19 from 3931J25 PIN R & S.
  - b.) Spliced wire W78-19 from pin R with 3931J22 wire W71-3 (20) pin D\*.

## For Co-Pilots Clock Deactivation:

- 4.) Removed COPLT CLOCK circuit breakers from LH FWD CB Panel. Spliced feed wires together. Cap and Stowed Load side wires.
- 5.) At Radio Junction Box:
  - a.) disconnected wire W78-45 from 3931TB1 3931R3 pin 3.
  - b.) cap and stowed wire.
  - c.) Installed jumper from pin 3 to 3931J22 pin F\* (splice with wire W71-4 (20))
- 6.) Tested all WOW interface circuits at #1 & #2 DCU, #1 & #2 DCP, #1 & #2 PFD, #1 & #2 MFD, DAU, #1 & #2 ADC, #1 & #2 GPS, #1 & #2 FSU, #1 & #2 TDR.
- 7.) Changed power wiring for ELT from #2 Clock to #2 Audio panel. Disconnected wire from inline fuse ELTF1 feed side and connected to Audio power input 2350P4 pin 8 (spliced with wire W965-019 (20)). Tested ELT.

This removal was electrically approved by [REDACTED] FAA DERT-230019-CE using a FAA 8110-3 Dated November 15, 2013 Using Nextant Engineering order 1165 Rev B Dated 11/13/2013

End.....

 Additional Sheets Are Attached



U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

**STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS**

1. DATE  
11-15-2013

**AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION**

2. MAKE Hawker Beechcraft	3. MODEL NO. 400A S/N RK-244 Only	4. TYPE (Airplane, Radio, Helicopter, etc.) Airplane	5. NAME OF APPLICANT Nextant Aerospace LLC
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**LIST OF DATA**

6. IDENTIFICATION  Nextant Aerospace Document EO 1165 dated 11-13-13 Rev. B	7. TITLE  Engineering Order Deactivate Clocks	
-----END----- This approval is for the electrical systems aspects only.		
8. PURPOSE OF DATA Support major alteration to aircraft Hawker Beechcraft 400A RK-244 Only.		
9. APPLICABLE REQUIREMENTS (List specific sections) 14 CFR 25.1301(a) [Orig]		
Note: Compliance has been found to the amendment levels indicated on Hawker Beechcraft 400A TCDS Revision 26 Part 25 Amendment 25-1 through 25-40 to the above applicable requirements.		
10. CERTIFICATION - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under 14 CFR Part 183 of the Federal Aviation Regulations, data listed above and on attached sheets numbered <u>N/A</u> have been examined in accordance with established procedures and found to comply with applicable requirements of the Airworthiness Standards listed.		
I (We) Therefore approve these data.		
11. SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S)	12. DESIGNATION NUMBERS(S)	13. CLASSIFICATION(S)
	DERT-230019-CE	Systems and Equipment





U.S. Department of  
Transportation  
Federal Aviation  
Administration

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

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

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See 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	Nationality and Registration Mark  N493LX		Serial No.  RK 244
	Make  Raytheon Aircraft Company	Model  400A	Series
2. Owner	Name (As shown on registration certificate)  Flight Options .LLC		Address (As shown on registration certificate)  Address _____ City <u>Richmond Heights</u> State. <u>OH</u> Zip <u>44143-1453</u> Country <u>USA</u>

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial Number
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency			
Name	Nextant Aerospace	<input type="checkbox"/>	U.S. Certificated Mechanic	<input type="checkbox"/>	Manufacturer
Address	_____	<input type="checkbox"/>	Foreign Certificated Mechanic	<input type="checkbox"/>	C. Certificate No.
City	Cleveland	<input checked="" type="checkbox"/>	Certificated Repair Station		
Zip	44143-1453	<input type="checkbox"/>	Certificated Maintenance Organization	CRS # 25NR667B	

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

Extended range fuel per 14 CFR Part 43 App. B	<input type="checkbox"/>	12/29/2013
---	--------------------------	------------

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

BY	FAA Fit Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport
	FAA Designee	X Repair Station	Inspection Authorization	Other (Specify)
Certificate or Designation No. CRS # 25NR667B		12/29/2013		



## 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.)*

N493LX

12/29/2013

Nationality and Registration Mark

Date

### TITLE: Aircraft Windshield Sealing Process Deviation:

Allow Deviation from AMM 56-10-00-201 for the sealing of the aircraft windshield process.

Temporary fasteners are not necessary during the sealing of the windshield. Original & typical bolts for installation may be used during the process, to keep retainers and shims in place during the entire sealing & installation of the windshield.

After proper sealing time had elapsed, torqued bolts for installation of windshield per AMM.

See attached FAA Form 8110-3 Signed By DERT-410115-CE [REDACTED]. Dated June 12, 2013 using Nextant Aerospace Engineering Order 1257, Rev. A, Dated May 21, 2013 for details.

ICA

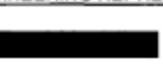
Weight change is Negligible.

Continue with Beechjet 400/400A Maintenance Manual Inspection Procedures.

.....End.....

Additional Sheets Are Attached



U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION <b>STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS</b>				1. DATE June 12, 2013
<b>AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION</b>				
2. MAKE  Hawker Beechcraft Corporation	3. MODEL NO.  400A	4. TYPE (Aircraft, Engine, Propeller, etc.)  Aircraft	5. NAME OF APPLICANT  Nextant Aerospace LLC Richmond Heights, Ohio	
<b>LIST OF DATA</b>				
6. IDENTIFICATION  EO 1257 Rev. A May 21, 2013	7. TITLE  Aircraft Windshield Sealing Process Deviation.  -----END----- Notes: <ol style="list-style-type: none"> <li>1) The structural aspects only of the above listed data are approved herein. This approval is only for the engineering data. It indicates the data listed above demonstrates compliance only with the regulations specified by paragraph and subparagraph listed below as "Applicable Requirements."</li> <li>2) This form constitutes FAA approval of all the engineering data necessary for substantiation of compliance to necessary requirements for the entire repair.</li> </ol>			
8. PURPOSE OF DATA: Engineering data in support of major repair to Hawker Beechcraft 400A, S/N RK-244.				
9. APPLICABLE REQUIREMENTS (List specific sections)  CFR Title 14 Part 25.301[25-23], 25.303[25-23], 25.305(a)(b)(c)[25-23], 25.307(a)[25-23], 25.601[25-00], 25.603(a)(b)(c)[25-38], 25.605(a)[25-00], 25.607[25-23], 25.609(a)(b)[25-00], 25.611[25-23], 25.613(a)(b)(c)[25-00], 25.619[25-23], and 25.625(a)(b)(c)[25-23].				
10. CERTIFICATION - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under 14 CFR Part 183, data listed above and on attached sheets numbered <u>N/A</u> have been examined in accordance with established procedures and found to comply with applicable requirements of the Airworthiness Standards Listed.				
<input type="checkbox"/> Recommend approval of these data I (We) Therefore <input checked="" type="checkbox"/> Approve these data				
11. SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S)		12. DESIGNATION NUMBERS(S)	13. CLASSIFICATION(S)	
 		DERT-410115-CE	Structures	





U.S. Department of  
Transportation  
Federal Aviation  
Administration

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

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

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See 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	Nationality and Registration Mark <b>N493LX</b>		Serial No.	RK 244		
	Make <b>Raytheon Aircraft Company</b>		Model	400A	Series	
2. Owner	Name (As shown on registration certificate) <b>Flight Options .LLC</b>		Address (As shown on registration certificate)			
			Address	<b>Richmond Heights</b>		State. OH
			City			
			Zip	<b>44143-1453</b>	Country	<b>USA</b>

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial Number
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency			
Name	Nextant Aerospace			<input type="checkbox"/> U.S. Certificated Mechanic	<input type="checkbox"/> Manufacturer
Address				<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City	Cleveland	State. OH		<input checked="" type="checkbox"/> Certificated Repair Station	
Zip	44143-1453	Country	USA	<input type="checkbox"/> Certificated Maintenance Organization	CRS # 25NR667B

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

Extended range fuel  
per 14 CFR Part 43  
App. B

2/29/2013

7. Approval for Return to Service

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

BY	FAA Fit Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport
	FAA Designee	X Repair Station	Inspection Authorization	Other (Specify)
Certificate or Designation No. <b>CRS # 25NR667B</b>		2/29/2013		



**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.)

N493LX

12/29/2013

Nationality and Registration Mark

Date

Requested for use of new processes & materials for the removal and installation of Main & Side Windscreen, deviation from HBC AMM

When performing the removal and installation of the windscreens and/or cockpit side windows, the following deviations from the HBC AMM are allowed & recommended:

1. During the removal & installation of the main windscreens, reference FO-AMMS document, chapter 56-10-01 for the main windscreens installation using AVDEC materials. This document correctly defines the processes and materials to be used for the removal and installation of the main windscreens.
2. During the removal and installation of the cockpit side windows, reference Flight Options FO-AMMS Document, chapter 56-10-10 & 56-10-11 for the replacement of the side window inner rubber gasket. This document correctly defines the processes and materials to be used for the replacement of the cockpit side windows inner rubber gasket.

NOTE: TG8498 & HT3935-7 may not be used on exterior surfaces unless sealant is to be painted after curing for protection against UV light. PERMISSIBLE TO PAINT OUTER WINDSHIELD RETAINER WITH Chevron White JET GLO, CM0570513 (Sherwin-Williams)

This Alteration was FAA Approved by [REDACTED] FAA DERT-410115-CE using an FAA Form 8110-3 dated December 28, 2013. Using Nextant Aerospace Engineering Order 1303 Rev B Dated November 13, 2013

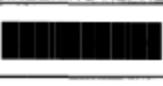
ICA

Continue with Normal Hawker Beech Maintenance manual Inspection Requirements for this Area

End.....

 Additional Sheets Are Attached



<p style="text-align: center;">U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION</p> <p style="text-align: center;"><b>STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS</b></p>				<p>1. DATE December 28, 2013</p>
<b>AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION</b>				
2. MAKE Hawker Beechcraft Corporation	3. MODEL NO. 400A	4. TYPE (Aircraft, Engine, Propeller, etc.) Aircraft	5. NAME OF APPLICANT Nextant Aerospace LLC Richmond Heights, Ohio	
<b>LIST OF DATA</b>				
6. IDENTIFICATION EO 1303 Rev. B November 13, 2013	7. TITLE Process & Material Deviation for the Removal and Installation of the Main & Side Windscreens.			
-----END-----				
<p>Notes:</p> <p>1) The structural aspects only of the above listed data are approved herein. This approval is only for the engineering data. It indicates the data listed above demonstrates compliance only with the regulations specified by paragraph and subparagraph listed below as "Applicable Requirements."</p> <p>2) This form constitutes FAA approval of all the engineering data necessary for substantiation of compliance to necessary requirements for the entire alteration.</p>				
8. PURPOSE OF DATA: Engineering data in support of major alteration to Hawker Beechcraft 400A, S/N RK-244.				
<p>9. APPLICABLE REQUIREMENTS (List specific sections)</p> <p>CFR Title 14 Part 25.301[25-23], 25.303[25-23], 25.305(a)(b)(c)[25-23], 25.307(a)[25-23], 25.562(c)[25-23], 25.601[25-00], 25.603(a)(b)(c)[25-38], 25.605(a)[25-00], 25.607[25-23], 25.609(a)(b)[25-00], 25.611[25-23], 25.613(a)(b)(c)[25-00], 25.619[25-23], 25.625(a)(b)(c)[25-23], and 25.789[25-32].</p>				
<p>10. CERTIFICATION - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under 14 CFR Part 183, data listed above and on attached sheets numbered <u>N/A</u> have been examined in accordance with established procedures and found to comply with applicable requirements of the Airworthiness Standards Listed.</p>				
<p><input type="checkbox"/> Recommend approval of these data</p> <p>I (We) Therefore <input checked="" type="checkbox"/> Approve these data</p>				
11. SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S)		12. DESIGNATION NUMBERS(S)	13. CLASSIFICATION(S)	
 		DERT-410115-CE	Structures	





U.S. Department of  
Transportation  
Federal Aviation  
Administration

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

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

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See 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	Nationality and Registration Mark <b>N493LX</b>		Serial No. <b>RK 244</b>
	Make <b>Raytheon Aircraft Company</b>	Model <b>400A</b>	Series
2. Owner	Name (As shown on registration certificate) <b>Flight Options .LLC</b>		Address (As shown on registration certificate) Address City Zip
			<b>Richmond Heights</b> State. <b>OH</b> <b>44143-1453</b> Country <b>USA</b>

**3. For FAA Use Only**

4. Type		5. Unit Identification		
Repair	Alteration	Unit	Make	Model
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in item 1 above) _____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT		
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER		
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type	
			Manufacturer	

**6. Conformity Statement**

A. Agency's Name and Address		B. Kind of Agency	
Name	Nextant Aerospace	<input type="checkbox"/> U.S. Certificated Mechanic	<input type="checkbox"/> Manufacturer
Address		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City	Cleveland	<input checked="" type="checkbox"/> Certificated Repair Station	
Zip	44143-1453	<input type="checkbox"/> Certificated Maintenance Organization	CRS # 25NR667B

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

Extended range fuel  
per 14 CFR Part 43  
App. B

12/29/2013

**7. Approval for Return to Service**

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

BY	FAA Fit Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport
	FAA Designee	X Repair Station	Inspection Authorization	Other (Specify)
Certificate or Designation No. CRS # 25NR667B				12/29/2013



**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.)

N493LX

12/29/2013

Nationality and Registration Mark

Date

Title : Replace MD-302 with Round Style Standby Gauges

Aircraft with MD302 digit SAM instruments must be reverted back to using round standby gauges until issues are resolved.

Modified Instrument Panel (373-92-4110-14) to allow the installation of the original round standby gauges per drawing NX311-10007-03 Rev A

Fabricated round indictor subpanel per drawing NX311-10007-01 Rev B

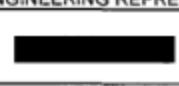
Installed instruments into subpanel and install subpanel into main instrument panel per drawing NX311-10007.

See Attached 8110-3 DERT 410115-CE [REDACTED] dated November 8, 2013 per Nextant Aerospace EO 1543 Rev D dated October 23, 2013

End.....

 Additional Sheets Are Attached



U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION <b>STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS</b>				1. DATE November 8, 2013
<b>AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION</b>				
2. MAKE  Hawker Beechcraft Corporation	3. MODEL NO.  400A	4. TYPE (Aircraft, Engine, Propeller, etc.)  Aircraft	5. NAME OF APPLICANT  Nextant Aerospace LLC Cleveland, Ohio	
<b>LIST OF DATA</b>				
6. IDENTIFICATION  EO 1543 Rev. D October 23, 2013	7. TITLE  Replace MD-302 With Round Style Gauges.  -----END-----  Notes:  1) The structural aspects only of the above listed data are approved herein. This approval is only for the engineering data. It indicates the data listed above demonstrates compliance only with the regulations specified by paragraph and subparagraph listed below as "Applicable Requirements."  2) This form does not constitute FAA approval of all the engineering data necessary for substantiation of compliance to necessary requirements for the entire alteration. The electrical requirements are not included in this approval and require separate approval.			
8. PURPOSE OF DATA: Engineering data in support of major alteration to Hawker Beechcraft 400A, S/N RK-244.				
9. APPLICABLE REQUIREMENTS (List specific sections)  CFR Title 14 Part 25.301[25-23], 25.303[25-23], 25.305(a)(b)(c)[25-23], 25.307(a)[25-23], 25.562(c)[25-23], 25.601[25-00], 25.603(a)(b)(c)[25-38], 25.605(a)[25-00], 25.607[25-23], 25.609(a)(b)[25-00], 25.611[25-23], 25.613(a)(b)(c)[25-00], 25.619[25-23], 25.625(a)(b)(c)[25-23], and 25.789[25-32].				
10. CERTIFICATION - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under 14 CFR Part 183, data listed above and on attached sheets numbered <u>N/A</u> have been examined in accordance with established procedures and found to comply with applicable requirements of the Airworthiness Standards Listed.				
<input type="checkbox"/> <b>Recommend approval of these data</b> I (We) Therefore <input checked="" type="checkbox"/> <b>Approve these data</b>				
11. SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S)		12. DESIGNATION NUMBERS(S)		13. CLASSIFICATION(S)
				DERT-410115-CE
				Structures





U.S. Department of  
Transportation  
Federal Aviation  
Administration

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

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

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See 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	Nationality and Registration Mark <b>N493LX</b>		Serial No.	<b>RK 244</b>	
	Make <b>Raytheon Aircraft Company</b>		Model	<b>400A</b>	Series
2. Owner	Name (As shown on registration certificate) <b>Flight Options .LLC</b>		Address (As shown on registration certificate) Address _____ City <b>Richmond Heights</b> State. <b>OH</b> Zip <b>44143-1453</b> Country <b>USA</b>		

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial Number
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above) _____	
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency			
Name	Nextant Aerospace	Address _____ City <b>Cleveland</b> State. <b>OH</b> Zip <b>44143-1453</b> Country <b>USA</b>	<input type="checkbox"/> U.S. Certificated Mechanic	<input type="checkbox"/> Manufacturer	
Address	<input type="checkbox"/> Foreign Certificated Mechanic		<input type="checkbox"/> C. Certificate No.		
City	<input checked="" type="checkbox"/> Certificated Repair Station		CRS # <b>25NR667B</b>		
Zip	<input type="checkbox"/> Certificated Maintenance Organization				

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

Extended range fuel per 14 CFR Part 43 App. B	<input type="checkbox"/>	12/29/2013
---	--------------------------	------------

7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED			
---	--	--	--

BY	FAA Fit Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport
	FAA Designee	X Repair Station	Inspection Authorization	Other (Specify)
Certificate or Designation No. <b>CRS # 25NR667B</b>		12/29/2013		



**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.)

N493LX

12/29/2013

Nationality and Registration Mark

Date

**Spoiler Linkage Closeout Modification**

Modified the Cockpit Floor Close out Panels Part Number: LH 45A30839-7 (Pilots) and Part Number: RH 45A30839-7 (Co-Pilots). Installed Nextant Aerospace Closeout Panel Part Number NX532-1004-1 between these Panels to allow room for the New Throttle Quadrant to fit under the Center Pedestal

This Alteration was FAA Approved by [REDACTED] FAA DERT-410114-CE using a FAA 8110-3 Dated December 28, 2013 using Nextant Aerospace Engineering Order 1563 Rev. B Dated December 24, 2013

ICA

Continue with Normal Hawker Beech Maintenance Manual Inspection Requirements for this Area

.....End.....

 Additional Sheets Are Attached



STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS					1. DATE December 28, 2013
AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION					
2. MAKE Hawker Beechcraft Corporation	3. MODEL NO. 400A	4. TYPE (Aircraft, Engine, Propeller, etc.) Aircraft	5. NAME OF APPLICANT Nextant Aerospace LLC Cleveland, Ohio		
LIST OF DATA					
6. IDENTIFICATION EO 1563 Rev. B December 24, 2013	7. TITLE Spoileron Linkage Closeout Modification.				
-----END-----					
<p>Notes:</p> <ol style="list-style-type: none"> <li>1) The structural aspects only of the above listed data are approved herein. This approval is only for the engineering data. It indicates the data listed above demonstrates compliance only with the regulations specified by paragraph and subparagraph listed below as "Applicable Requirements."</li> <li>2) This constitutes FAA approval of all the engineering data necessary for substantiation of compliance to necessary requirements for the entire alteration.</li> </ol>					
8. PURPOSE OF DATA: Engineering data in support of major alteration to Hawker Beechcraft 400A, S/N RK-244.					
9. APPLICABLE REQUIREMENTS (List specific sections) CFR Title 14 Part 25.301[25-23], 25.303[25-23], 25.305(a)(b)(c)[25-23], 25.307(a)[25-23], 25.601[25-00], 25.603(a)(b)(c)[25-38], 25.605(a)[25-00], 25.607[25-23], 25.609(a)(b)[25-00], 25.611[25-23], 25.613(a)(b)(c)[25-00], 25.619[25-23], and 25.625(a)(b)(c)[25-23].					
10. CERTIFICATION - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under 14 CFR Part 183, data listed above and on attached sheets numbered <u>N/A</u> have been examined in accordance with established procedures and found to comply with applicable requirements of the Airworthiness Standards Listed.					
<p><input type="checkbox"/> Recommend approval of these data  <input checked="" type="checkbox"/> Approve these data</p> <p>I (We) Therefore</p>					
11. SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S)		12. DESIGNATION NUMBERS(S)	13. CLASSIFICATION(S)		
		DERT-410115-CE	Structures		





U.S. Department of  
Transportation  
Federal Aviation  
Administration

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

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

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See 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	Nationality and Registration Mark <b>N493LX</b>		Serial No.	<b>RK 244</b>	
	Make <b>Raytheon Aircraft Company</b>	Model <b>400A</b>	Series		
2. Owner	Name (As shown on registration certificate) <b>Flight Options .LLC</b>		Address (As shown on registration certificate)		
	Address	City <b>Richmond Heights</b>		State, OH <b>OH</b>	Zip <b>44143-1453</b>
3. For FAA Use Only					

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial Number
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type	_____	_____
			Manufacturer		

6. Conformity Statement					
A. Agency's Name and Address			B. Kind of Agency		
Name Address City Zip	Nextant Aerospace Cleveland 44143-1453		State, OH	<input type="checkbox"/> U.S. Certificated Mechanic	<input type="checkbox"/> Manufacturer
				<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
				<input checked="" type="checkbox"/> Certificated Repair Station	CRS # 25NR667B
				<input type="checkbox"/> Certificated Maintenance Organization	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
Extended range fuel per 14 CFR Part 43 App. B	<input type="checkbox"/>	12/29/2013			
7. Approval for Return to Service					

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport	
	FAA Designee	X Repair Station	Inspection Authorization	Other (Specify)	
Certificate or Designation No. <b>CRS # 25NR667B</b>		12/29/2013			



**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.)*

N493LX

12/29/2013

Nationality and Registration Mark

Date

Nextant Aerospace Carried out a Repair to the Horizontal Stabilizer Ribs

Using Nextant Aerospace Kit Part Number NXK-128-6200 Rev B. Dated July 16. 2012.

The following Ribs were replaced.

NXR-45A21112-007	Rib – H Stab Cant STA 13.779.
NXR-45A21113-007	Rib – H Stab Cant STA 29.921.
NXR-45A21101-021	Rib – H Stab Cant STA 46.063.
NXR-45A21116-007	Rib – H Stab Cant STA 62.205
NXR-45A21117-007	Rib – H Stab Cant STA 78.346

The following Ribs were not Replaced as there was not Damaged.

NXR128-620020-001

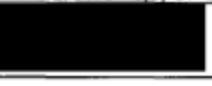
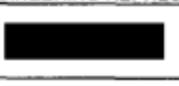
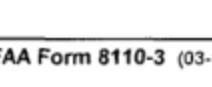
NXR128-620020-002

This Kit was FAA Approved by [REDACTED] DER-T 410115-CE Structures on an FAA 8110-3. Dated June 12, 2013. Using Nextant Aerospace Engineering Drawing NXR-128-6200 Rev B Dated July 16.2012

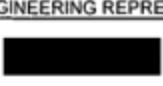
END

Additional Sheets Are Attached



U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION <b>STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS</b>				1. DATE June 12, 2013
<b>AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION</b>				
2. MAKE  Hawker Beechcraft Corporation	3. MODEL NO.  400A	4. TYPE (Aircraft, Engine, Propeller, etc.)  Aircraft	5. NAME OF APPLICANT  Nextant Aerospace LLC Richmond Heights, Ohio	
<b>LIST OF DATA</b>				
6. IDENTIFICATION  NXR-128-6200 Rev. B July 16, 2012	7. TITLE  Kit – Horizontal Stabilizer Rib Replacement Installation Instructions.			
NXR-45A21112-007 Rev. C July 13, 2012	Rib – H Stab Cant STA 13.779.			
NXR-45A21113-007 Rev. B July 13, 2012	Rib – H Stab Cant STA 29.921.			
NXR-45A21114-007 Rev. B July 13, 2012	Rib – H Stab Cant STA 46.063.			
NXR-45A21115-007 Rev. C July 13, 2012	Rib – H Stab Cant STA 46.063.			
NXR-45A21101-021 Rev. A July 19, 2012	Rib Assy – H Stab Cant STA 46.063.			
NXR-45A21116-007 Rev. B July 13, 2012	Rib – H Stab Cant STA 62.205.			
NXR-45A21117-007 Rev. B July 13, 2012	Rib – H Stab Cant STA 78.346.			
8. PURPOSE OF DATA: Engineering data to support repair procedure for Horizontal Stabilizer P/N 45A21002-0121 on Hawker Beechcraft 400A, S/N RK-244.				
9. APPLICABLE REQUIREMENTS (List specific sections)  CFR Title 14 Part 25.301[25-23], 25.303[25-23], 25.305(a)(b)(c)[25-23], 25.307(a)[25-23], 25.601[25-00], 25.603(a)(b)(c)[25-38], 25.605(a)[25-00], 25.607[25-23], 25.609(a)(b)[25-00], 25.611[25-23], 25.613(a)(b)(c)[25-00], 25.619[25-23], and 25.625(a)(b)(c)[25-23].				
10. CERTIFICATION - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under 14 CFR Part 183, data listed above and on attached sheets numbered <u>2</u> have been examined in accordance with established procedures and found to comply with applicable requirements of the Airworthiness Standards Listed.				
<input type="checkbox"/> Recommend approval of these data I (We) Therefore <input checked="" type="checkbox"/> Approve these data				
11. SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S)		12. DESIGNATION NUMBERS(S)		13. CLASSIFICATION(S)
 		DERT-410115-CE		Structures
				
				



U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION <b>STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS</b>				1. DATE June 12, 2013
<b>AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION</b>				
2. MAKE Hawker Beechcraft Corporation	3. MODEL NO. 400A	4. TYPE (Aircraft, Engine, Propeller, etc.) Aircraft	5. NAME OF APPLICANT Nextant Aerospace LLC Richmond Heights, Ohio	
<b>LIST OF DATA</b>				
6. IDENTIFICATION	7. TITLE END			
	Notes: 1) The structural aspects only of the above listed data are approved herein. This approval is only for the engineering data. It indicates the data listed above demonstrates compliance only with the regulations specified by paragraph and subparagraph listed below as "Applicable Requirements." 2) This form constitutes FAA approval of all the engineering data necessary for substantiation of compliance to necessary requirements for the entire repair.			
8. PURPOSE OF DATA: Engineering data to support repair procedure for Horizontal Stabilizer P/N 45A21002-0121 on Hawker Beechcraft 400A, S/N RK-244.				
9. APPLICABLE REQUIREMENTS (List specific sections) CFR Title 14 Part 25.301[25-23], 25.303[25-23], 25.305(a)(b)(c)[25-23], 25.307(a)[25-23], 25.601[25-00], 25.603(a)(b)(c)[25-38], 25.605(a)[25-00], 25.607[25-23], 25.609(a)(b)[25-00], 25.611[25-23], 25.613(a)(b)(c)[25-00], 25.619[25-23], and 25.625(a)(b)(c)[25-23].				
10. CERTIFICATION - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under 14 CFR Part 183, data listed above and on attached sheets numbered <u>2</u> have been examined in accordance with established procedures and found to comply with applicable requirements of the Airworthiness Standards Listed.				
<input type="checkbox"/> Recommend approval of these data I (We) Therefore <input checked="" type="checkbox"/> Approve these data				
11. SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S)		12. DESIGNATION NUMBERS(S)	13. CLASSIFICATION(S)	
 		DERT-410115-CE	Structures	





U.S Department of  
Transportation  
Federal Aviation  
Administration

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

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

Electronic Tracking Number

For FAA Use Only

**INSTRUCTIONS:** Print or type all entries. See 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	Nationality and Registration Mark <b>N493LX</b>		Serial No. <b>RK244</b>	
	Make <b>Raytheon Aircraft Company</b>		Model <b>400A</b>	Series
2. Owner	Name (As shown on registration certificate) <b>Flight Options, LLC</b>		Address (As shown on registration certificate) Address: [REDACTED] City <b>Richmond Heights</b> State <b>Ohio</b> Zip <b>44143-1453</b> Country <b>USA</b>	

**3. For FAA Use Only**

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial Number
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<b>AIRFRAME</b>	—	(As described in Item 1 above)	
<input type="checkbox"/>	<input type="checkbox"/>	<b>POWERPLANT</b>			
<input type="checkbox"/>	<input type="checkbox"/>	<b>PROPELLER</b>			
<input type="checkbox"/>	<input type="checkbox"/>	<b>APPLIANCE</b>	Type		
			Manufacturer		

**6. Conformity Statement**

A. Agency's Name and Address		B. Kind of Agency		
Name <b>Constant Aviation</b>		<input type="checkbox"/> U.S. Certificated Mechanic	<input type="checkbox"/> Manufacturer	
Address: [REDACTED]		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.	
City <b>Cleveland</b> State <b>Ohio</b>		<input checked="" type="checkbox"/> Certificated Repair Station	CRS#WC7R346J	
Zip <b>44135</b> Country <b>United States</b>		<input type="checkbox"/> Certificated Maintenance Organization		

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

Extended range fuel  
per 14 CFR Part 43  
App. B

Date: December 30, 2013

to Service

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

BY	FAA Fit Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport
	FAA Designee	<input checked="" type="checkbox"/> Repair Station	Inspection Authorization	Other (Specify)
Certificate or Designation No. <b>CRS#WC7R346J</b>		Signature/Date of [REDACTED]		
Date: December 30, 2013				

## 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.)

N493LX

12/30/2013

Nationality and Registration Mark

Date

### ACCOMPLISHED INTERIOR REFURBISHMENT/MODIFICATION AND 3 PLACE DIVAN INSTALLATION

#### THE FOLLOWING AIRCRAFT INTERIOR ITEMS HAVE BEEN REFURBISHED:

Repainted, recovered control columns with Matte Black Leather Accordance with Beechjet 400A AMM 20-70-00-701, 25-00-00-001  
Removed and Replaced Glare shield and Eyebrow panel material with Matte Black Leather in Accordance with Beechjet 400A AMM 20-60-00-201  
Removed and Replaced Cockpit Sidewall material with Matte Black Leather in Accordance with Beechjet 400A AMM 20-60-00-201.  
Removed and replaced Pilot Seat Part Number TABH100PM0001 Serial Number 62, Foam and recovered with Garrett Sheepskin Oak and Excell Cappuccino Leather.  
Removed and replaced Co-Pilot Seat Part Number TABH100CM00-01 Serial Number 246, Foam and recovered with Garrett Sheepskin Oak and Excell Cappuccino Leather.  
Removed and Replaced Left Hand #4 Passenger Seat Part Number 2524-014(-530A) Serial Number 990719-4 Foam and recovered with Townsend Leather (Heritage Brown)  
Removed and replaced Right Hand #5 Passenger Seat Part Number 2524-014(-530B) Serial Number 990426-7 Foam and recovered with Townsend Leather(Heritage Brown)  
Removed and Replaced Left Hand #6 Passenger Seat Part Number 2524-014(530B)Serial Number 030618-6 Foam and recovered with Townsend Leather (Heritage Brown)  
Removed and replaced Right Hand #7 Passenger Seat Part Number 2524-014(530A) Serial Number 030708-2 Foam and recovered with Townsend Leather (Heritage Brown)

#### THE FOLLOWING MANUALS AND APPROVED DATA HAVE BEEN UTILIZED FOR BASIS OF REFURBISHMENT:

Skandia Flammability Test S254976 as approved by FAA DER Jane Biberstein (DERY 832780-CE) on FAA form 8110-3 dated 4/23/2013.

Flame Out Flammability Test 4311 as approved by FAA DER Herb Reed II (DERT-230293-CE) on FAA Form 8110-3 dated 12/23/2013.

Skandia Flammability Test Report TP 22681 Rev A as approved by FAA DER Jane Biberstein( DERY-832780-CE) on FAA Form 8110-3 dated 05/02/2013.

#### Three Place Divan installation:

Installed (3) place divan part Number 32-0396(A60PT)T123.KO2 S/N 003702 In Accordance with Aviation Fabricators STC# ST01572WI and Skandia Flammability test report S254976 per Jane Biberstein FAA DER (DERY-832780-CE) dated 4/23-2013

#### THE FOLLOWING INTERIOR ITEMS HAVE BEEN MODIFIED:

L/H Gally Assy, R/H Galley Assy, Divan Assy. L/H Galley Assy and Install per Delta G drawing DGD-CA01-101 Rev D, DGD-CA01-101 EO E-1, L/H Galley Install DGD-CA01-501 Rev EO A-1, DGD-CA01-501 Rev IR as approved on FAA form 8110-3 per FAA DER Donald Gillespie (DERT-750135-SW) dated March 25 2013. R/H Galley Assy and Install per Delta G drawings DGD-CA02-101 Rev B, DGD-CA02-501 Rev IR as approved on FAA form 8110-3 by FAA DER Donald Gillespie (DERT-750135-SW) dated March 25, 2013. Divan Assy per Delta G drawings DGD-CA09-101 Rev C and DGD-CA09-101 EO D-1 as approved on FAA form 8110-3 per FAA DER Donald Gillespie (DERT 750135-SW) dated March 25, 2013, Bonner Kit Sidewall assy drawing 2553-0036 Rev C, Bonner Sideledge assy drawing 2532-0002 Rev C, Bonner Kit Foldout Table assy drawings 2553-0041 Rev C and 2553-0040 Rev B, Bonner XTI liner Kit Instl drawing 2553-0037 Rev C as approved on FAA form 8110-3 per Stephen Forness DERT-230238-CE dated Dec 26, 2013.

#### INSTRUCTIONS FOR CONTINUED AIRWORTHINESS:

THE REMOVAL OF THE INTERIOR IS ON THE CONDITION OF FAILURE. THERE ARE NO ADDITIONAL INSPECTIONS REQUIRED. CONTINUE TO INSPECT IAW MANUFACTURERS AMM, SRM, OR CMM AS APPLICABLE

AIRCRAFT EQUIPMENT LIST AND WEIGHT AND BALANCE WERE UPDATED BY THE CUSTOMER

-----END-----

Additional Sheets Are Attached

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION <b>STATEMENT OF COMPLIANCE WITH THE FEDERAL AVIATION REGULATIONS</b>				DATE Dec 26, 2013
<b>AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION</b>				
MAKE Beechcraft Corporation	MODEL 400A	TYPE (Airplane, Radio, Helicopter, etc.) AIRPLANE	NAME OF APPLICANT NEXTANT Aerospace Cleveland OH.	
<b>LIST OF DATA</b>				
IDENTIFICATION	TITLE			
<b>REPORT:</b>  RKG3282 Rev. IR, 8-28-2013	BEECHJET 400A INTERIOR STRUCTURAL SUBSTANTIATION  2553-0037 Rev C, dated 8-30-2013  BEECHJET 400A XTI LINER KIT INSTL.  <b>Beechjet 400A, Aircraft Serial No. RK-244</b>  Certification Bases for this aircraft modification is per Type Certificate Number A16SW Revision 28 dated April 12,2013			
<b>PURPOSE OF DATA</b> DESCRIBE AND SHOW VERIFICATIONS FOR NEXTANT INTERIOR INSTALLATION ON BEECHJET 400A, AIRCRAFT SERIAL NO. RK-244				
<b>APPLICABLE REQUIREMENTS</b> (List specific sections)  14 CFR Part 25 §.301, 303, 305, 307a), 365, 561, 571, 601, 603, 605, 609, 613				
<b>CERTIFICATION</b> - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under Part 183 of the Federal Aviation Regulations, data listed above and on attached sheets numbered _____ have been examined in accordance with established procedures and found to comply with applicable requirements of the Federal Aviation Regulations.				
I <input checked="" type="checkbox"/> Therefore <input type="checkbox"/> Recommend approval of these data <input checked="" type="checkbox"/> Approve these data				
SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S)		DESIGNATION NUMBER(S)	CLASSIFICATION(S)	
 		DERT-230238-CE	STRUCTURES AND DAMAGE TOLERANCE	





Wichita, Kansas 67216

## STRUCTURAL ANALYSIS REPORT

### **Forward Calley Cabinet Modifications - Beechcraft Model 400A, RK-244 & RK-305**

**Document No: 313-ST-001**

**Revision IR**

**PREPARED BY:** [REDACTED]

**Date:** December 24, 2013

**APPROVED BY:**

**APPROVED BY:**

[REDACTED]  
Manager – Design Engineering

[REDACTED]  
President

THIS DOCUMENT CONTAINS INFORMATION OF A PROPRIETARY NATURE AND SHALL NOT BE  
TRANSMITTED, REVEALED, OR DISCLOSED TO ANYONE WITHOUT THE EXPRESS WRITTEN PERMISSION  
OF LEE PRODUCTS ENGINEERING SERVICES, INC. ADDITIONALLY, USE OF THE INFORMATION IS  
PROHIBITED EXCEPT WHEN EXPRESSLY AUTHORIZED BY LEE PRODUCTS ENGINEERING SERVICES, INC.

EFTA00011911

**REVISION RECORD**

<b>Revision</b>	<b>Date</b>	<b>Description</b>	<b>Approval</b>
IR	12/24/13	Initial Release	See Cover Sheet

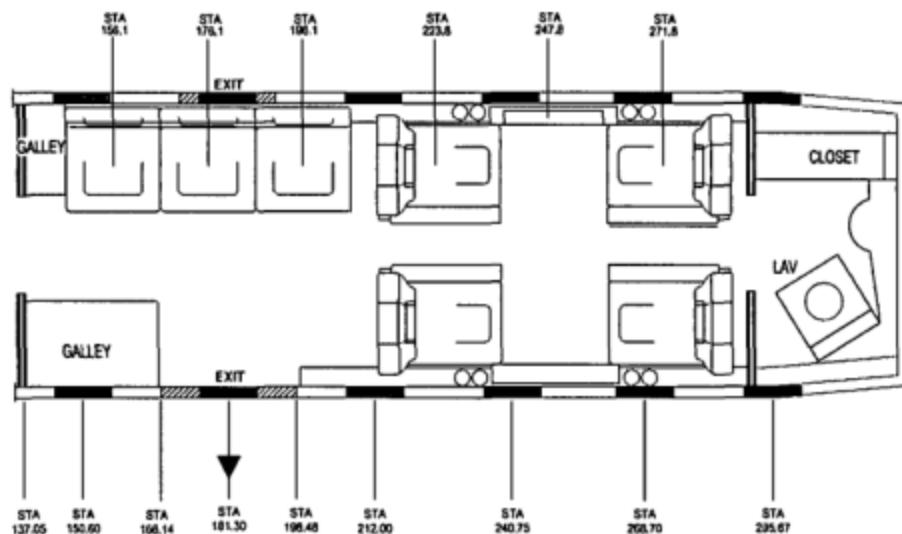
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**1. INTRODUCTION**

The purpose of this report is to demonstrate the structural substantiation to applicable 14 CFR Part 25 regulations as they relate to the installation and modification of various interior cabinets on Beechcraft Model 400A, S/N's RK-244 and RK-305, for a FAA Form 337 major alteration, performed by Constant Aviation at their Cleveland, OH facility.

The installations consist of the replacement of new RH and LH forward galleys, and modification to the existing closet frame, an extension of the aft lavatory, and a modification to the side-facing divan with the manufacturer's approval. Everything except the new LH forward galley has been accomplished on a previous modification as documented in LPESI Report 222-ST-001. Therefore, only the new galley will be discussed and analyzed in this report. The floorplan for the two (2) Beechcraft Model 400A aircraft is as shown below.

**Figure 1-1 – Floorplan**

**2. REFERENCES****2.1 Constant Aviation Drawings**

<b>Drawing No.</b>	<b>Rev.</b>	<b>Title</b>
NXT0213-01	IR	LH Galley Assembly
NXT0213-02	IR	LH Galley Installation
NXT0213-05	IR	Weight Placard Installation
NXT0313-01	IR	RH Galley Assembly
NXT0313-02	IR	RH Galley Installation
NXT0313-03	IR	Divan Assembly
NXT0313-07	IR	4" Lav Ext

**2.2 Applicable Supplier Drawings (Aviation Fabricators)**

<b>Drawing No.</b>	<b>Rev.</b>	<b>Title</b>
D-10666	A	3 Place Divan Installation (STC ST01572WI)

**2.3 Applicable LPESI Reports**

<b>Drawing No.</b>	<b>Rev.</b>	<b>Title</b>
222-ST-001	B	Miscellaneous Cabinet Modifications – Beechcraft Model 400A

**2.4 Applicable Government Documents**

<b>Document</b>	<b>Rev.</b>	<b>Title</b>
14 CFR Part 25	See Sect. 3	Airworthiness Standards: Transport Category Airplanes
ANM-115-09-017	1/28/10	Interaction of Interior Structures, Including Seats

**3. CERTIFICATION BASIS**

The Beechcraft Model 400A certification basis is defined Type Certificate Data Sheet (TCDS) A16SW, Rev. 28, the Certification Basis is 14 CFR Part 25 dated February 1, 1965, including Amendments 25-1 through 25-40. The individual 14 CFR Part 25 subparagraphs that will be discussed herein are:

- 25.301(a)(b)(c) Loads (Amdt. 25-23)
- 25.303 Factors of Safety (Amdt. 25-23)
- 25.305(a)(b) Strength and Deformation (25-23)
- 25.307(a) Proof of Structure (Amdt. 25-23)

25.341(c)	Gust Loads (No Amdt.)
25.561(a)(b)(c)	Emergency Landing Loads – General (Amdt 25-23)
25.601	Design and Construction – General (No Amdt.)
25.603(a)(b)	Materials and Workmanship (Amdt. 25-38)
25.605	Fabrication Methods (No Amdt.)
25.607(a)(b)	Fasteners (Amdt. 25-23)
25.609(a)(b)	Protection of Structure (No Amdt.)
25.613(a-e)	Materials Strength Properties ... (No Amdt.)
25.625(a)(b)(c)	Fitting Factors (Amdt. 25-23)
25.787(a)(b)	Stowage Compartments (Amdt. 25-38)
25.789	Retention of Items of Mass ... (Amdt. 25-32)

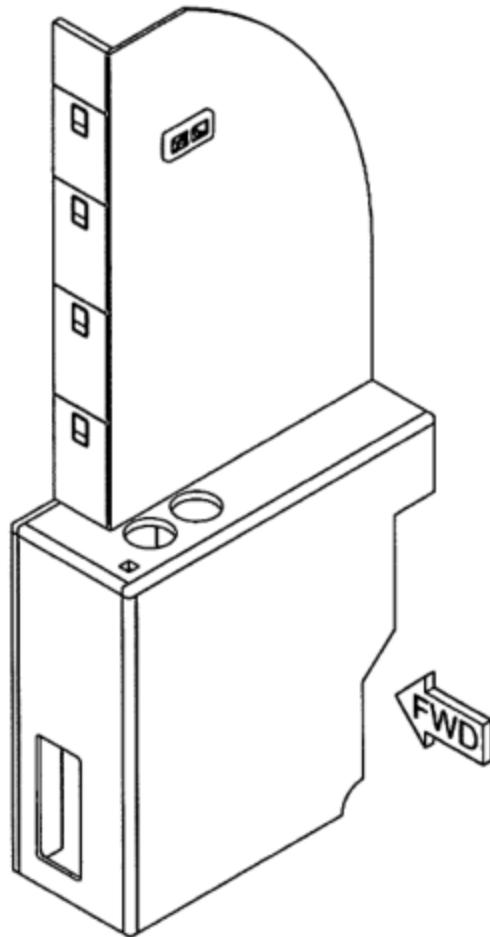
#### **4. DESCRIPTION**

##### **4.1 General**

The modification of the Model 400A aircraft consists of replacing the existing RH and LH forward cabinets with new assemblies, modifying the RH forward 3-place side-facing divan by refurbishing the divan, and modifying the existing LH aft lavatory cabinet by extending its cabinet structure to close out the area around it. All but the new LH galley are previously installed and certified on previous 400A aircraft, and analyzed in LPESI Report 222-ST-001.

##### **4.2 RH Forward Galley Assy & Instl**

The NXT0313-01 RH forward galley assembly (installed per NXT0313-02) is the same as that previously installed on other Model 400A aircraft. An illustration of the galley in Figure 4-1.



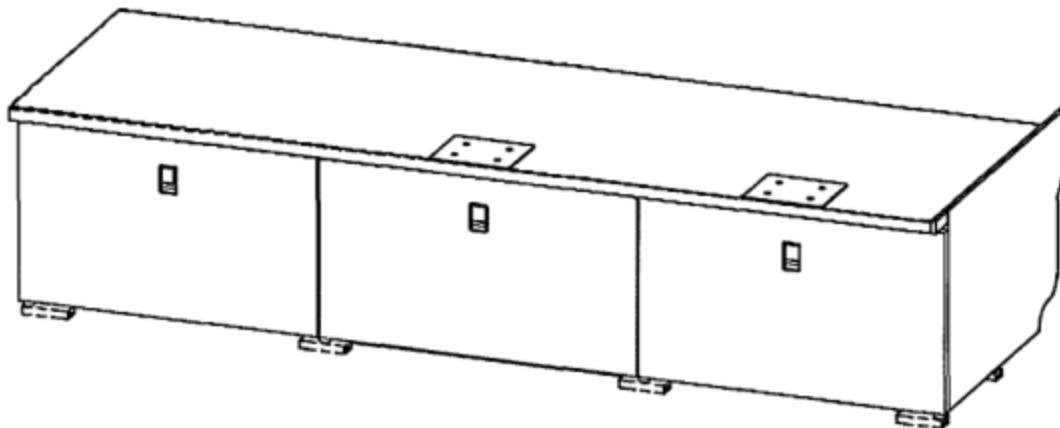
**Figure 4-1 – RH Forward GalleyAssy  
(Contact Pad on Upper Area Not Shown)**

The galley is manufactured from strong lightweight 0.50-inch thick ATR-FP-501F2 Nomex/fiberglass composite panels from AAR Composites, and fabricated using ATR panel pin construction.

The RH forward galley is installed between the existing RH forward structural partition (which separates the flight deck with the cabin) forward of it and the 3-place side-facing divan immediately aft of it. The lower wider section of the cabinet also encloses the aircraft's air conditioning evaporator mounted separately to the floor structure underneath.

#### **4.3 RH Forward Divan Modification**

The NXT0313-03 3-place side-facing divan assembly consists of new drawer and fascia door panels onto the existing structural divan frame (Aviation Fabricators D-10666 STC'd Installation Kit - STC ST01572WI). It has also been installed in previous Model 400A aircraft, and analyzed in LPESI Report 222-ST-001. An illustration of the divan assembly is provided in Figure 4-2.

**Figure 4-2 – RH Forward Divan Mod**

The divan closeout panels are manufactured from strong lightweight 0.50-inch thick ATR-FP-501F2 Nomex/fiberglass composite panels from AAR Composites, and fabricated using ATR panel pin construction.

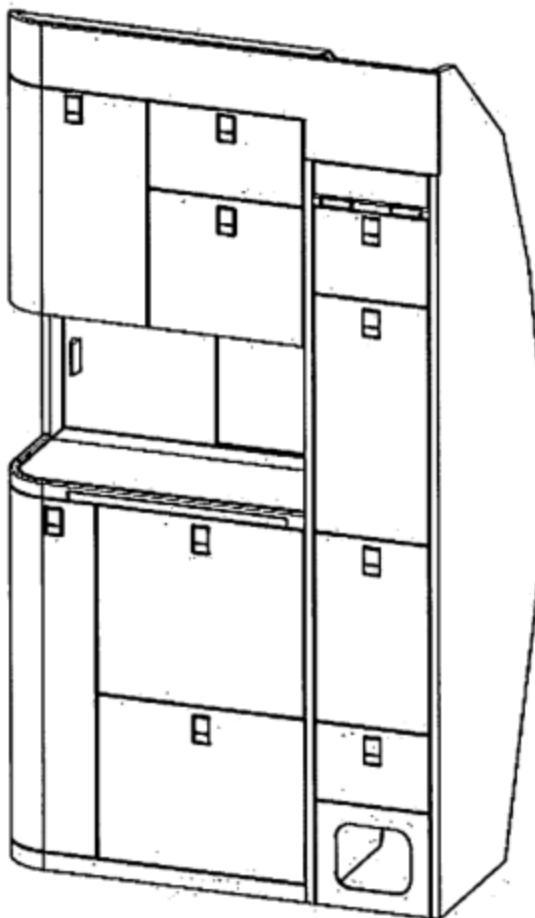
The STC'd divan frame installation consists of a structural frame (bottom only – no seat backs, cushions form the divan backs), restraint systems consisting of lap belts and shoulder harnesses for all three (3) seated positions, and a D-106699 floorboard modification installation underneath the divan. The frame installed in eight (8) places into the existing cabinet "Brownline" seat track extrusions (inboard and outboard).

#### **4.4 LH Forward Galley Assy & instl**

The NXT0213-01 LH forward galley assembly is a traditional aircraft galley and is located between the flight deck and the entry door, directly aft of the existing LH forward structural partition (bulkhead). The new galley replaces an existing galley of similar design and the same size. In fact, this new galley assembly is the same as previously installed in other Model 400A aircraft, and analyzed in LPESI Report 222-ST-001, except for a minor change to the upper forward portion of the cabinet. As can be seen in a comparison of the galley illustrations below and Fig. 4-3 of 222-ST-001, the change consists of eliminating the small recessed condiment tray drawer and extending (down) the existing compartment to compensate.

The galley is manufactured from strong lightweight 0.50-inch thick ATR-FP-501F2 Nomex/fiberglass composite panels from AAR Composites, and fabricated using ATR panel pin construction.

An illustration of the LH forward galley is provided in Figure 4-3.

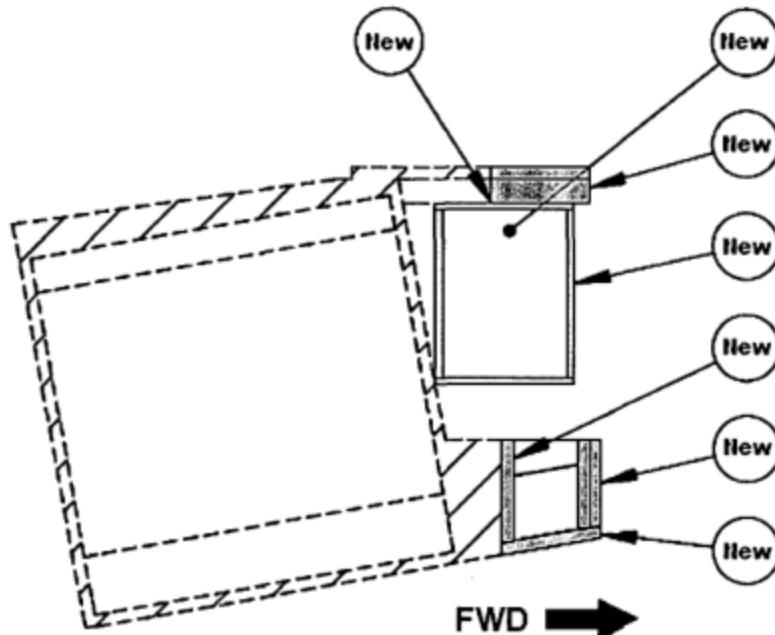
**Figure 4-3 – LH Forward Galley Assy**

The LH forward galley is installed per NXT0213-02 and is installed utilizing the same existing installation attachments – five (5) screw/insert attachments into the existing partition and four (4) floor attachments (2 into the existing seat track and 2 into existing floorboard mounts, and is the same as the previous NXT0313-05 installation analyzed in LPESI Report 222-ST-001.

The empty cabinet weights 86.15 pounds (less than the 90.61 pound galley analyzed in LPESI Report 222-ST-001) and the total placarded content weight (Ref. NXT0213-05) of 141.0 pounds (only 1.0 pound more than the 222-ST-001 analyzed galley). Therefore, the total installation weight of the NXT0213-02 galley is 3.46 pounds lighter than that analyzed in LPESI Report 222-ST-001, and is therefore structurally substantiated by comparison.

#### 4.5 LH Aft Lavatory Extension

The NXT0313-07 LH aft lavatory modification consists of augmenting the toilet cabinet with new panels and compartments between the existing cabinet and the RH aft partition. An illustration of the modification to the aft lavatory is shown in Figure 4-4 (new components in gray).



**Figure 4-4 – LH Aft Lavatory Extension**

This is the same as previously analyzed in LPESI Report 222-ST-001.

### 5. STRUCTURAL SUBSTANTIATION

The structural analysis will be generated using traditional means based on conservative assumptions.

In determining the Margin of Safety (MS), the resulting analytical result will be subtracted from 1.0 so that any MS greater than 0.0 is considered a positive margin. Also, MS's greater than 3.0 will be listed as "**+Ample**".

#### 5.1 LH Forward Galley Assy & Instl

The critical loadings for the LH forward galley are the 9.0g forward and 3.5g side load conditions. However, since the new galley weighs 3.5 pounds less than the previously analyzed galley, is of similar shape and design, includes that same installed equipment, and utilizing the same aircraft attachment points, the new galley assembly and installation is therefore structural substantiated by comparison.

The largest placarded drawer is the top, center drawer in the lower section of the galley, which is placarded for 45.0 pounds. The drawer is restrained by a standard Actron paddle latch, P/N A23511-1S. The applied load to the latch is (the drawer itself + hardware is 5.0 pounds):

$$\text{Applied Load} = (5.0 \text{ lbs} + 45.0 \text{ lbs}) \times 3.5g \times 1.15ff = 201.3 \text{ pounds}$$

The minimum load rating for the A23511 paddle latch by its manufacturer is 225.0 pounds. The resulting margin of safety is:

$$\text{M.S.} = 225.0 \text{ lbs} / 201.3 \text{ lbs} - 1.0 = \mathbf{+0.12}$$

## **6. CONCLUSION**

Based on the above structural analysis, the new cabinets and modification and their installations, listed in Sect. 2.1, into the aircraft have been shown to be compliant with the applicable 14 CFR Part 25 regulations, as defined in Sect. 3 with positive margins of safety.

## APPENDIX A

U. S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION <b>STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS</b> AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION			
			1. DATE 4/23/2013
2. MAKE  Raytheon	3. MODEL NO.  400A	4. TYPE (Airplane, Engine, Propeller, etc.)  Airplane	5. NAME OF APPLICANT  Constant Aviation-CLM
6. IDENTIFICATION Design Data S254976 Rev NC			
LIST OF DATA 7. TITLE			
Skandia, Inc. Flammability Test Results Bunsen Burner Testing Test Specimen P/N's Cont. 25 (represents main entry door trim) 27 (represents upper med surround) 28 (represents lower med, lower med surround, lh aft blkhd) 29 (represents pax seat back shrouds, arms, crash pad) 30 (represents seat shrouds) 31 (represents entry steps, cockpit ped step) 33 (represents cntrl column boots, rudder boots) 34 (represents ckpt defog vent closeout) 35 (represents table shrouds) 36 (represents dado and aircell closeout) 39 (represents crew seats)  Notes:  1) Work accomplished under Skandia Inc. WO # 254976-13, Ref Document ID 93650. 2) Flammability test witnessing only, does not constitute installation approval of materials. 3) IAW Skandia Flammability Streamline Testing Test Plan 21306, Rev IR, Dated 11/03/11			
Page 2			
8. PURPOSE OF DATA Demonstration of compliance with material flammability requirements for S/N RK-244			
9. APPLICABLE REQUIREMENTS (List specific sections) 14 CFR Part 25.853 (a) Amdt 25-116 Appendix F Part I (a)(1)(i) Amdt 25-111 14 CFR Part 25.853 (a) Amdt 25-116 Appendix F Part I (a)(1)(ii) 14 CFR Part 25.855 (d) Amdt 25-116 Appendix F Part I (6)			
10. CERTIFICATION - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under 14 CFR Part 183, data listed above and on attached sheets numbered <u>1 - 2</u> have been examined in accordance with established procedures and found to comply with applicable requirements of the Airworthiness Standards listed.			
I (We) Therefore <input type="checkbox"/> Recommend approval of these data <input checked="" type="checkbox"/> Approve these data			
11. SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE		12. DESIGNATION NUMBER(S)	13. CLASSIFICATION(S)
		DERY-832780-CE	Structural Special



U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION <b>STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS</b>				1. DATE March 25, 2013
<b>AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION</b>				
2. MAKE Beechjet	3. MODEL NO. 400A	4. TYPE (Airplane, Radio, Helicopter, etc.) AIRPLANE	5. NAME OF APPLICANT Constant Aviation Cleveland, Ohio	
<b>LIST OF DATA</b>				
6. IDENTIFICATION		7. TITLE		
Document No. DGD-CA08-501 REV: IR Dated: 6/13/12		ARMREST RH INSTL		
DGD-CA09-101 REV: C Dated: 1/25/13		DIVAN ASSY		
DGD-CA09-101 EO: D-1 Dated: 2/28/13		DIVAN ASSY		
DGD-CA13-101 REV: IR Dated: 2/28/13		CARD TABLE ASSY		
DGD-CA14-101 REV: IR Dated: 1/31/13		LAV CLOSET FRAME MOD		
----- End of Data -----				
<b>NOTES:</b> <ol style="list-style-type: none"> <li>1. This approval is for Beechjet model 400A (Nextant 400XT variant) S/N RK-244 only.</li> <li>2. This approval is for the structural design aspects only on the above listed data and does not constitute an installation approval.</li> <li>3. Approval is only for regulations specified in the "Applicable Requirements" block. Compliance with additional regulations not listed herein may be required. This form does not constitute FAA approval of all engineering design data for the entire alteration. Additional 8110-3 approvals may be necessary for Damage Tolerance, Flammability, Mechanical Systems, Electrical, Weight &amp; Balance, as well as other disciplines.</li> <li>4. For certification basis, refer to TC data sheet No. A16SW</li> <li>5. Structural Approvals are provided separately.</li> </ol>				
<b>8. PURPOSE OF DATA</b> <b>To provide type data for FAA approval of structure in support of a return to service on S/N RK-244. This approval is for design data only on a major alteration and is not an installation approval.</b>				
<b>9. APPLICABLE REQUIREMENTS</b> (List specific sections) <b>14 CFR Part 25.601 Amdt 25-0, 25.603(a)(b), Amdt 25-38, 25.605 Amdt 25-0, 25.609 Amdt 25-0, 25.611, Amdt 25-23, 25.613 (a)(b)(c) Amdt 25-0, 25.619 Amdt 25-23, 25.625 Amdt 25-23, 25.785 (a)(b)(c)(d)(e)(f) Amdt 25-32, 25.789 Amdt 25-32</b>				
<b>10. CERTIFICATION</b> - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under 14 CFR Part 183, data listed above and on attached sheets numbered <u>N/A</u> have been examined in accordance with established procedures and found to comply with applicable requirements of the Airworthiness Standards Listed.				
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		DERT-750135-SW	STRUCTURAL	

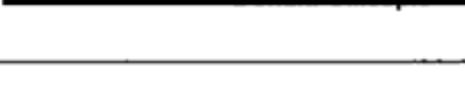
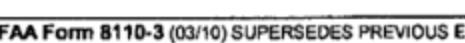


U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION <b>STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS</b>				1. DATE March 25, 2013
<b>AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION</b>				
2. MAKE Beechjet	3. MODEL NO. 400A	4. TYPE (Airplane, Radio, Helicopter, etc.) AIRPLANE	5. NAME OF APPLICANT Constant Aviation Cleveland, Ohio	
<b>LIST OF DATA</b>				
6. IDENTIFICATION Document No. DGD-CA01-SS-07 REV: IR Dated: 3/6/13		7. TITLE SUBSTANTIATION ANALYSIS of the Interior on an Hawker Beechcraft 400A Aircraft  ----- End of Data -----		
<b>NOTES:</b> <ol style="list-style-type: none"> <li>1. This approval is for Beechjet model 400A (Nextant 400XT variant) S/N RK-244 only.</li> <li>2. This approval is for the structural design aspects only on the above listed data and does not constitute an installation approval.</li> <li>3. Approval is only for regulations specified in the "Applicable Requirements" block. Compliance with additional regulations not listed herein may be required. This form does not constitute FAA approval of all engineering design data for the entire alteration. Additional 8110-3 approvals may be necessary for Damage Tolerance, Flammability, Mechanical Systems, Electrical, Weight &amp; Balance, as well as other disciplines.</li> <li>4. For certification basis, refer to TC data sheet No. A16SW</li> </ol>				
8. PURPOSE OF DATA <b>Structural substantiation in support of FAA Form 337 for aircraft S/N RK-244. This approval is for design data only on a major alteration and is not an installation approval.</b>				
9. APPLICABLE REQUIREMENTS (List specific sections) <b>14 CFR Part 25.301[Amdt. 25-23], .303[Amdt. 25-23], .305(a)(b)[Amdt. 25-23], .307[Amdt 25-23], .341[Amdt. 25-0], .561[Amdt. 25-23], .601[Amdt. 25-0], .603(a)(b)[Amdt. 25-38], .605[Amdt. 25-0], .609[Amdt. 25-0], .611[Amdt. 25-23], .613(a)(b)(c)[Amdt. 25-0], .625 [Amdt. 25-23], .785(a)(b)(c)(d)(e)(f)[Amdt. 25-32], .787(a)[Amdt 25-32], .789[Amdt. 25-32]</b>				
10. CERTIFICATION - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under 14 CFR Part 183, data listed above and on attached sheets numbered <u>N/A</u> have been examined in accordance with established procedures and found to comply with applicable requirements of the Airworthiness Standards Listed.				
I (We) Therefore <input type="checkbox"/> Recommend approval of these data <input checked="" type="checkbox"/> Approve these data				
11. SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S)		12. DESIGNATION NUMBERS(S) <b>DERT-750135-SW</b>	13. CLASSIFICATION(S) <b>STRUCTURAL</b>	



<p style="text-align: center;">U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION</p> <p style="text-align: center;"><b>STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS</b></p>				1. DATE March 25, 2013
<b>AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION</b>				
2. MAKE Beechjet	3. MODEL NO. 400A	4. TYPE (Airplane, Radio, Helicopter, etc.) AIRPLANE	5. NAME OF APPLICANT Constant Aviation Cleveland, Ohio	
<b>LIST OF DATA</b>				
6. IDENTIFICATION		7. TITLE		
Document No. DGD-CA02-101 REV: B Dated: 1/25/13		RH GALLEY ASSY		
DGD-CA02-501 REV: IR Dated: 6/13/12		RH GALLEY INSTL		
DGD-CA13-501 REV: IR Dated: 12/21/12		CARD TABLE INSTL		
DGD-CA13-501 EO: A-1 Dated: 2/28/12		CARD TABLE INSTL		
DGD-CA04-101 REV: IR Dated: 6/13/12		SIDE LEDGE ASSY		
----- End of Data -----				
<b>NOTES:</b> <ol style="list-style-type: none"> <li>1. This approval is for Beechjet model 400A (Nextant 400XT variant) S/N RK-244 only.</li> <li>2. This approval is for the structural design aspects only on the above listed data and does not constitute an installation approval.</li> <li>3. Approval is only for regulations specified in the "Applicable Requirements" block. Compliance with additional regulations not listed herein may be required. This form does not constitute FAA approval of all engineering design data for the entire alteration. Additional 8110-3 approvals may be necessary for Damage Tolerance, Flammability, Mechanical Systems, Electrical, Weight &amp; Balance, as well as other disciplines.</li> <li>4. For certification basis, refer to TC data sheet No. A16SW</li> <li>5. Structural Approvals are provided separately.</li> </ol>				
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<b>9. APPLICABLE REQUIREMENTS</b> (List specific sections) <b>14 CFR Part 25.601 Amdt 25-0, 25.603(a)(b), Amdt 25-38, 25.605 Amdt 25-0, 25.609 Amdt 25-0, 25.611, Amdt 25-23, 25.613 (a)(b)(c) Amdt 25-0, 25.619 Amdt 25-23, 25.625 Amdt 25-23, 25.785 (a)(b)(c)(d)(e)(f) Amdt 25-32, 25.789 Amdt 25-32</b>				
<b>10. CERTIFICATION</b> - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under 14 CFR Part 183, data listed above and on attached sheets numbered <u>N/A</u> have been examined in accordance with established procedures and found to comply with applicable requirements of the Airworthiness Standards Listed.				
I (We) Therefore <input type="checkbox"/> Recommend approval of these data <input checked="" type="checkbox"/> Approve these data				
<b>11. SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S)</b>		<b>12. DESIGNATION NUMBERS(S)</b>	<b>13. CLASSIFICATION(S)</b>	
		DERT-750135-SW	STRUCTURAL	
				
				



U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION <b>STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS</b>				1. DATE March 25, 2013
<b>AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION</b>				
2. MAKE Beechjet	3. MODEL NO. 400A	4. TYPE (Airplane, Radio, Helicopter, etc.) AIRPLANE	5. NAME OF APPLICANT Constant Aviation Cleveland, Ohio	
<b>LIST OF DATA</b>				
6. IDENTIFICATION		7. TITLE		
Document No. DGD-CA01-101 REV: D Dated: 3/5/13		LH GALLEY ASSY		
DGD-CA01-101 EO: E-1 Dated: 3/6/13		LH GALLEY ASSY		
DGD-CA01-501 REV: IR Dated: 6/13/12		LH GALLEY INSTL		
DGD-CA01-501 EO: A-1 Dated: 1/29/13		LH GALLEY INSTL		
DGD-CA01-501 EO: A-2 Dated: 3/5/13		LH GALLEY INSTL		
----- End of Data -----				
<b>NOTES:</b> <ol style="list-style-type: none"> <li>1. This approval is for Beechjet model 400A (Nextant 400XT variant) S/N RK-244 only.</li> <li>2. This approval is for the structural design aspects only on the above listed data and does not constitute an installation approval.</li> <li>3. Approval is only for regulations specified in the "Applicable Requirements" block. Compliance with additional regulations not listed herein may be required. This form does not constitute FAA approval of all engineering design data for the entire alteration. Additional 8110-3 approvals may be necessary for Damage Tolerance, Flammability, Mechanical Systems, Electrical, Weight &amp; Balance, as well as other disciplines.</li> <li>4. For certification basis, refer to TC data sheet No. A16SW</li> <li>5. Structural Approvals are provided separately.</li> </ol>				
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<b>9. APPLICABLE REQUIREMENTS (List specific sections)</b> <b>14 CFR Part 25.601 Amdt 25-0, 25.603(a)(b), Amdt 25-38, 25.605 Amdt 25-0, 25.609 Amdt 25-0, 25.611, Amdt 25-23, 25.613 (a)(b)(c) Amdt 25-0, 25.619 Amdt 25-23, 25.625 Amdt 25-23, 25.785 (a)(b)(c)(d)(e)(f) Amdt 25-32, 25.789 Amdt 25-32</b>				
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<b>11. SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S)</b> 		<b>12. DESIGNATION NUMBERS(S)</b> DERT-750135-SW	<b>13. CLASSIFICATION(S)</b> STRUCTURAL	
				
				



Aviation Fabricators, Inc.

Clinton, Missouri 64735

Report # AF-475FTP

August 09, 2010

Rev (A)

**Functional Test Procedure  
for STC # ST01572WI**

**Hawker Beechcraft Cabin Configuration  
Applicable Aircraft Model:  
Hawker Beechcraft 400, 400A**

Aviation Fabricators, Inc.

Clinton, Missouri 64735

AF-475FTP

08-09-10

Rev (A)

Page 2 of 4

### Revision Log

Date	Rev	Pages	Description	Approved by
08-09-10	A	1	-Added model 400A -Changed data list # to AF-475MDL	G.R. Lowe III

Aviation Fabricators Inc.

Clinton, MO. 64735

## INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

For

Interior Cabin Configurations

**Document No.: AF-528**

**Revision "IR"**

**Revision Date: 11/21/11**

**Applicable to:**

Hawker Beechcraft model 400A

**Modified by FAA STC ST01572WI**

The information in the Instructions for Continued Airworthiness is FAA accepted material and complies with 14 CFR 25.1529, Instructions for Continued Airworthiness. It supersedes or adds to that provided in the Maintenance Manual for the Hawker Beechcraft 400A Aircraft, only where covered in the items contained herein. For limitations and procedures not contained in the Supplement, consult the Component Maintenance Manual, or other approved airplane data.

1000

■ Fax

RV-244  
SN# 003702



Nov 7, 2012

**CERTIFICATE OF CONFORMANCE**

This certifies that Aviation Fabricators, Divan, 3 Place with stowage provisions, Beechjet, part number, 32-0396(A60P)T123.K-02, serial number, 003702, was manufactured in, or determined to be in conformity to and with approved design data and is in a condition for safe operation for installation on aircraft.

### Vice-President

## REVISION PAGE

Document Title: Instructions for Continued Airworthiness

Prepared By: Todd Pogue

Reviewed By: Jeffrey R. Lowe

Updates to the ICA will be made by Aviation Fabricators Inc. Updates will be listed in the log of revisions and the effective pages will be listed below.

Log of Revisions				
REV. NO.	EFFECTED PAGE(S)	DESCRIPTION	DATE	APPROVED BY
IR	All	Initial Release	11/21/11	JRL

Per the requirement of Appendix H of 14 CFR Part 25 paragraph H25.1 (c), the changes made to the ICA by the applicant will be distributed via mail by means of paper copy

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## REVISION PAGE

Document Title: Instructions for Continued Airworthiness

Prepared By: [REDACTED]

Reviewed By: [REDACTED]

Updates to the ICA will be made by Aviation Fabricators Inc. Updates will be listed in the log of revisions and the effective pages will be listed below.

### Log of Revisions

REV. NO.	EFFECTED PAGE(S)	DESCRIPTION	DATE	APPROVED BY
IR	All	Initial Release	11/21/11	JRL

Per the requirement of Appendix H of 14 CFR Part 25 paragraph H25.1 (c), the changes made to the ICA by the applicant will be distributed via mail by means of paper copy

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## ABBREVIATIONS AND DEFINITIONS

Abbreviations	Definitions
AML	FAA Approved Model List (AML)
Detailed Inspection (DET)	An intensive examination of a specific item, installation or assembly to detect damage, failure or irregularity. Available lighting is normally supplemented with a direct source of good lighting at an intensity deemed appropriate. Inspection aids such as mirrors, magnifying lenses, etc. may be necessary. Surface cleaning and elaborate access procedures may be required.
FAA	Federal Aviation Administration
FAA MIDO	FAA Manufacturing Inspection District Office
General Visual Inspection (GVI)	A visual examination of an interior or exterior area, installation or assembly to detect obvious damage, failure or irregularity. This level of inspection is made from within touching distance unless otherwise specified. A mirror may be necessary to enhance visual access to all exposed surfaces in the inspection area. This level of inspection is made under normally available lighting conditions such as daylight, hangar lighting, flashlight or droplight and may require removal or opening of access panels or doors. Stands, ladders or platforms may be required to gain proximity to the area being checked.
ICA	Instructions for Continued Airworthiness
Special Detailed Inspection (SDI)	An Intensive examination of a specific item, installation , or assembly to detect damage, failure or irregularity. The examination is likely to make extensive use of specialized Inspection Techniques and/or equipment. Intricate cleaning and substantial access or disassembly procedure may be required.
STC	Supplemental Type Certificate

## 1.0 INTRODUCTION

The purpose of this Maintenance Manual Supplement and Instructions for Continued Airworthiness (ICA) is to provide the maintenance technician with the information necessary to ensure the continued airworthiness of the Aviation Fabricators cabin configuration, per installation number 400-3, when installed in the aircraft passenger cabin in accordance with Aviation Fabricators design data included on Master Data List AF-475MDL and per Supplement Type Certificate (STC) No. ST01572WI.

Modifications to an aircraft obligates the operator to include the maintenance information provided by this document into the operators aircraft Maintenance Manual and operator's aircraft scheduled maintenance program. This document defines supplementary maintenance operations and frequencies recommended by Aviation Fabricators Inc., to ensure the aircraft's airworthiness.

The information contained herein addresses the requirements specified in 14 CFR 25.1529, Instructions for Continues Airworthiness and supplements the basic Airplane Maintenance Manual only in those areas listed as pertains to the installation of divan assemblies, as installed per the Aviation Fabricator Master Data List AF-475MDL. For limitations and procedures not contained in this supplement, consult the basic Airplane Maintenance Manual.

## DATA

All information to support the continued airworthiness of this modification is contained in:

STC ST01572WI.  
Master Data List: AF-475MDL.

Installation: 3 Place Divan (Ref. installation number 400-3),  
Installation Instructions D-10666 for P/N 32-0396K-X

Parts: P/N 32-0396K-X, 3 Place Divan Installation

The new divan assembly (with restraint system) is a self contained complete assembly that mounts to the existing seat track, using standard fittings, in accordance with FAA approved floor plans. The (restraint system) seat belts are attached to the seat track with typical tie down fittings and the inertia reel shoulder harness is bolted to the divan frame on the outboard side using standard aircraft hardware.

### Design Change Control

All data and changes to the parts and assemblies will be tracked per Master Data List AF-475MDL Rev C or later FAA approved revision.

**Applicable Aircraft**  
Beechjet 400A

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**Applicable Aircraft**  
Beechjet 400A

3 Place Divan  
P/N 32-0396K-X (Top not shown for clarity)

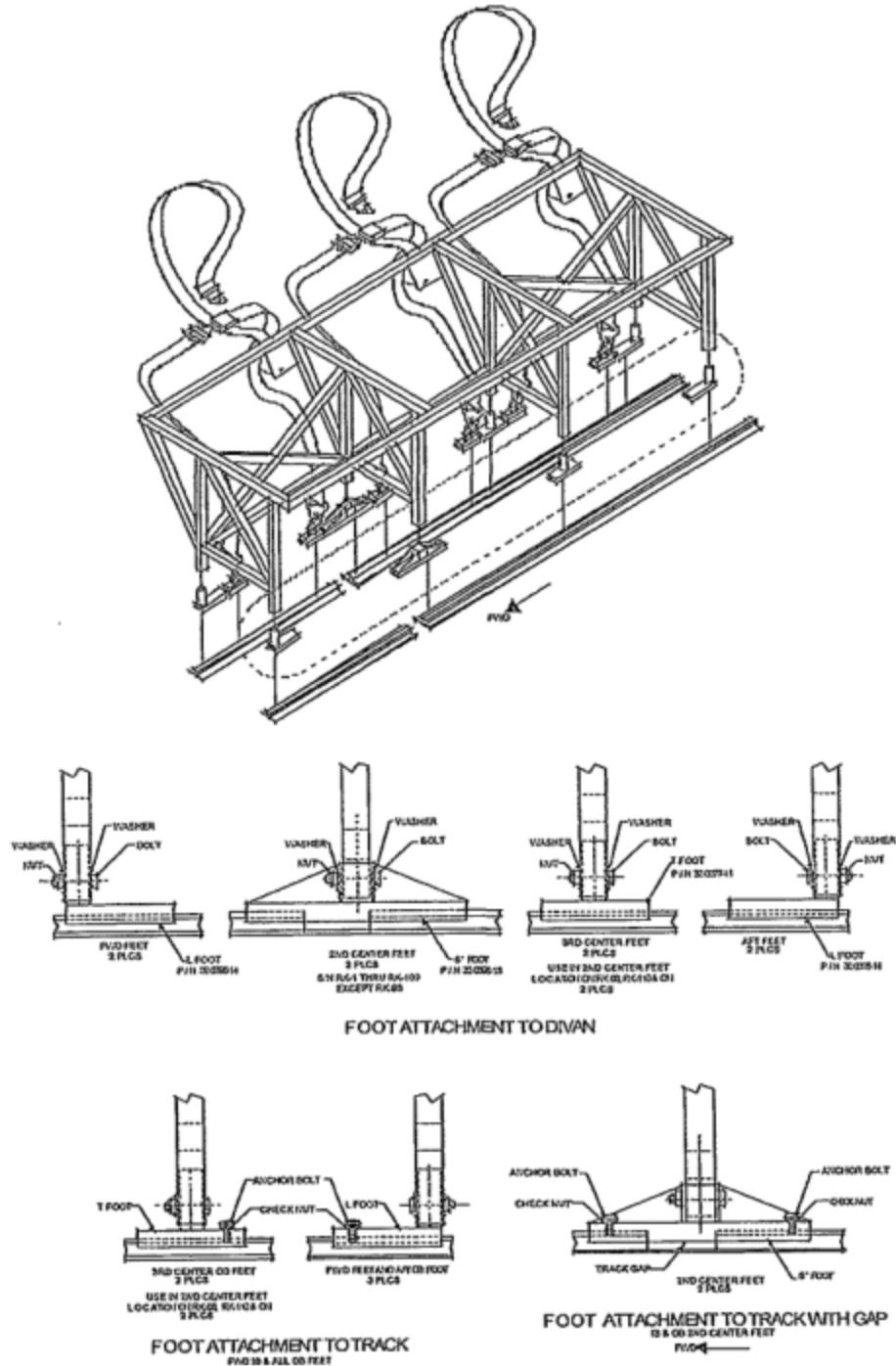


Figure 1.0A

Inertia Reel Attachment

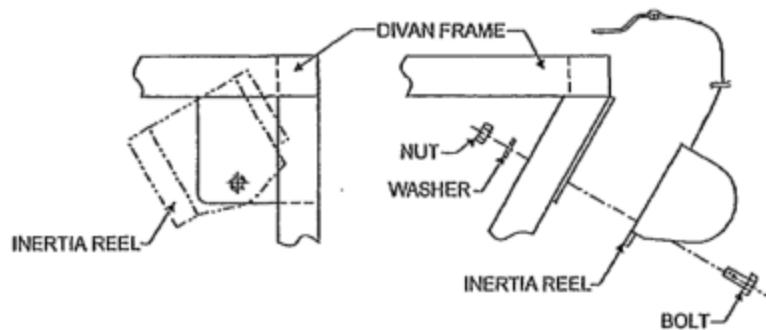


Figure 1.0B

Seat Belt Attachment

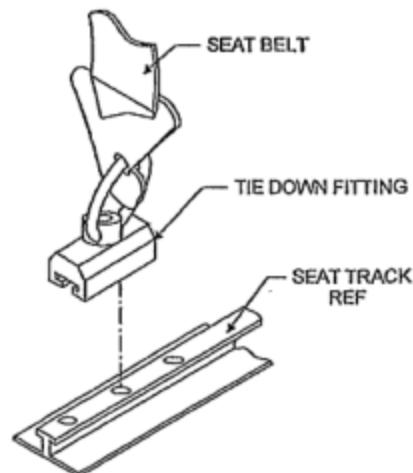
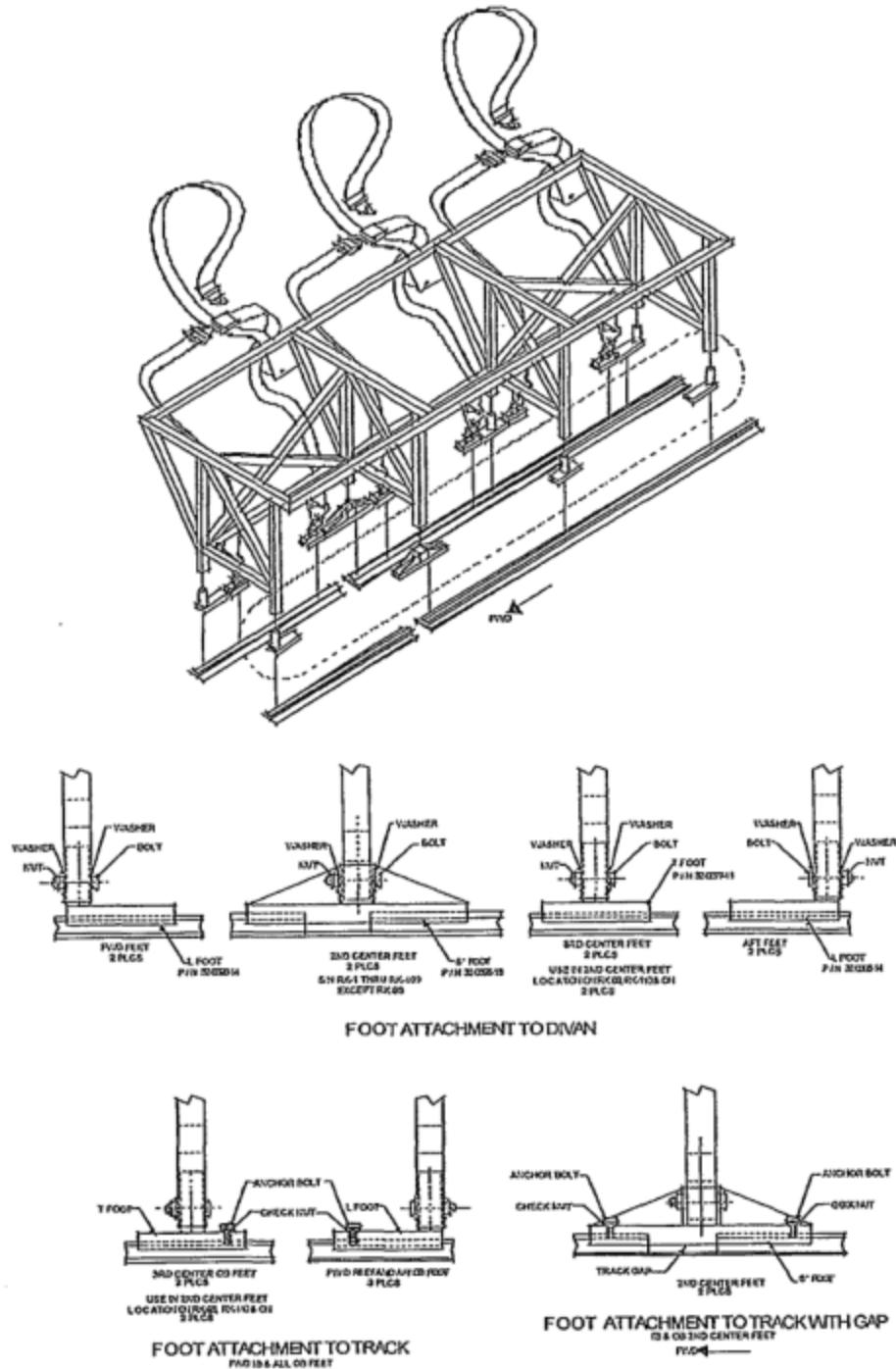


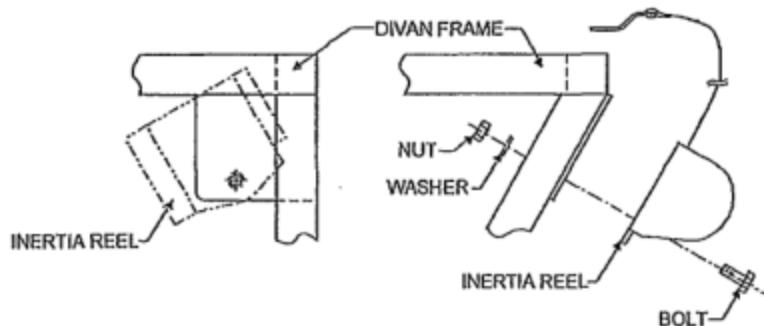
Figure 1.0C

**3 Place Divan**  
P/N 32-0396K-X (Top not shown for clarity)



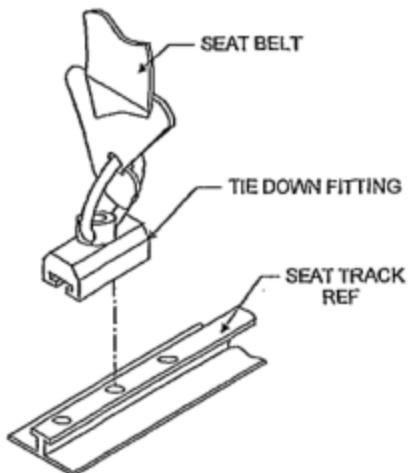
**Figure 1.0A**

Inertia Reel Attachment

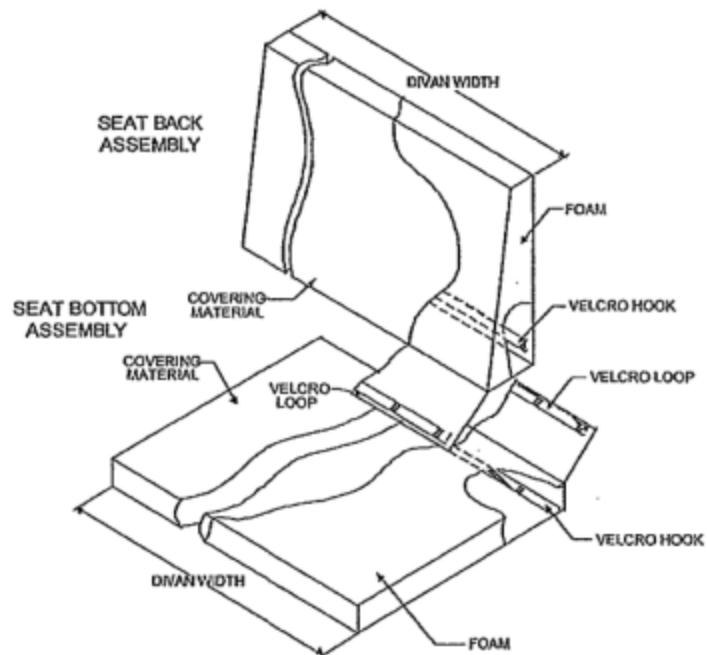


**Figure 1.0B**

Seat Belt Attachment



**Figure 1.0C**



CUSHION ASSEMBLY REFERENCE

Figure 1.0D

## 2.0 INSPECTION REQUIREMENTS AND OVERHAUL SCHEDULE

1. To comply with 14 CFR 25.1529, continue the new divan assembly (with restraint system) on the same inspection and maintenance schedule used per the Hawker Beechcraft Maintenance Manual for cabin section inspections.
  - a. The new cabin configuration components require no service other than inspection at normal inspection interval of 200 hours.
  - b. The safety belts require no service other than inspection at normal inspection interval of every 200 hours.
  - c. Perform a detailed visual inspection of each passenger seat bottom and back cushions and covering of all cabin interior components to detect apparent or obvious defects or irregularities.

On the cushion assembly, check for cracks and punctures within a 4" diameter circle. The cushion assembly can have no more than three defects found within the 4" diameter circle. If a cushion develops a "lump", check to see if there are no more than two lumps within a 4" diameter circle. Any damage to the cushions outside of the described limits will require them to be replaced.

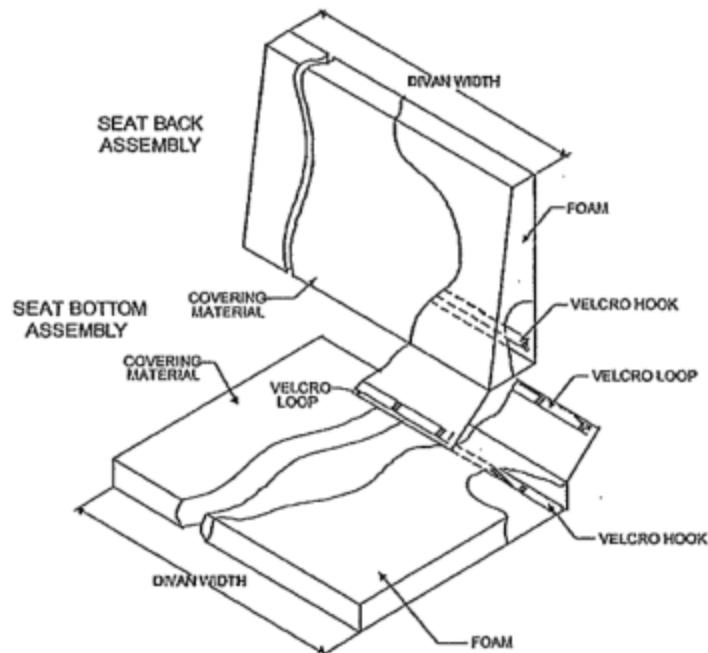
Visually inspect the covering assemblies for holes, punctures, and tears. If the damage to the covering is holes smaller than  $\frac{1}{2}$ " in diameter or a cut at a maximum of 2" in length then the covering is satisfactory. The sewing of the cover assemblies is not to exceed 1" tearing. Any damage to the covering assemblies outside of the described limits will require them to be replaced.

- d. Visually inspect the divan and seat assembly tubes and diaphragm for cracks and deformation. Damaged conditions could be detected as a crack at the edge of the tube or along the length of the tubes or as a crack, tear or cut found on the seat bottom or back diaphragm. Visually inspect all hardware for excessive wear before and after installation.

Replace the seat back and bottom diaphragm if two cracks or deformations are found with a 4" diameter circle. If a tear or cut is found with a maximum of 6", replace the diaphragm.

There shall be no broken tubes. There shall be no sharp corners, edges, or protrusions that may injure passengers. Replace the tubes if they are bent in such a way that they are more than 2" off center. Replace the seat tubes if crack length is found to be .125" or greater. Replace the tube if a dent is found running longer than 3". Replace the seat tubes if deformation is greater than .25" the overall thickness of the tube diameter.

Cracked or broken fasteners or fittings are to be replaced with new immediately.



CUSHION ASSEMBLY REFERENCE

Figure 1.0D

## 2.0 INSPECTION REQUIREMENTS AND OVERHAUL SCHEDULE

1. To comply with 14 CFR 25.1529, continue the new divan assembly (with restraint system) on the same inspection and maintenance schedule used per the Hawker Beechcraft Maintenance Manual for cabin section inspections.
  - a. The new cabin configuration components require no service other than inspection at normal inspection interval of 200 hours.
  - b. The safety belts require no service other than inspection at normal inspection interval of every 200 hours.
  - c. Perform a detailed visual inspection of each passenger seat bottom and back cushions and covering of all cabin interior components to detect apparent or obvious defects or irregularities.

On the cushion assembly, check for cracks and punctures within a 4" diameter circle. The cushion assembly can have no more than three defects found within the 4" diameter circle. If a cushion develops a "lump", check to see if there are no more than two lumps within a 4" diameter circle. Any damage to the cushions outside of the described limits will require them to be replaced.

Visually inspect the covering assemblies for holes, punctures, and tears. If the damage to the covering is holes smaller than  $\frac{1}{2}$ " in diameter or a cut at a maximum of 2" in length then the covering is satisfactory. The sewing of the cover assemblies is not to exceed 1" tearing. Any damage to the covering assemblies outside of the described limits will require them to be replaced.

- d. Visually inspect the divan and seat assembly tubes and diaphragm for cracks and deformation. Damaged conditions could be detected as a crack at the edge of the tube or along the length of the tubes or as a crack, tear or cut found on the seat bottom or back diaphragm. Visually inspect all hardware for excessive wear before and after installation.

Replace the seat back and bottom diaphragm if two cracks or deformations are found with a 4" diameter circle. If a tear or cut is found with a maximum of 6", replace the diaphragm.

There shall be no broken tubes. There shall be no sharp corners, edges, or protrusions that may injure passengers. Replace the tubes if they are bent in such a way that they are more than 2" off center. Replace the seat tubes if crack length is found to be .125" or greater. Replace the tube if a dent is found running longer than 3". Replace the seat tubes if deformation is greater than .25" the overall thickness of the tube diameter.

Cracked or broken fasteners or fittings are to be replaced with new immediately.

For repair or replacement of damaged or broken parts or assemblies contact  
Aviation Fabricators Inc.

2. Inspection Time Limit for the cabin configuration installations:

200 +/- hour inspection for the new cabin configuration components

Task Code			Schedule	Date	Mech	Insp
AFI-100	a.	Inspect for damage to upholstery.				
AFI-101	b.	Inspect safety belts for wear, cuts, fraying, damage, and deterioration.				
AFI-102	c.	Inspect safety belt attachment fittings for wear and damage				
AFI-103	d.	Inspect foot fittings for damage, security, and function.				
AFI-104	e.	Inspect seat frame for damage, and corrosion.				
AFI-105	f.	Inspect overall seat for fit and function.				

A. The new divan assembly and restraint system are on the same inspection and maintenance schedule used per the Hawker Beechcraft Maintenance Manual for passenger seats.

3.0 **DIMENSION AND ACCESS:**

The installation of this cabin configuration does not change the dimensions of the aircraft or alter the access to any existing aircraft system.

4.0 **LIFTING AND SHORING**

No change.

5.0 **LEVELING AND WEIGHING**

Divan

Maximum Allowable Seat Weight w/ Seat Bottom Upholstery	=	80 lbs
--	---	--------

Base Weight of Divan Assembly w/ Restraint System = 50 lbs  
(includes empty drawer weight)

6.0 **TOWING AND TAXIING**

No change.

7.0 **PARKING AND MOORING**

No change.

For repair or replacement of damaged or broken parts or assemblies contact Aviation Fabricators Inc.

2. Inspection Time Limit for the cabin configuration installations:

200 +/- hour inspection for the new cabin configuration components

Task Code			Schedule	Date	Mech	Insp
AFI-100	a.	Inspect for damage to upholstery.				
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AFI-102	c.	Inspect safety belt attachment fittings for wear and damage				
AFI-103	d.	Inspect foot fittings for damage, security, and function.				
AFI-104	e.	Inspect seat frame for damage, and corrosion.				
AFI-105	f.	Inspect overall seat for fit and function.				

A. The new divan assembly and restraint system are on the same inspection and maintenance schedule used per the Hawker Beechcraft Maintenance Manual for passenger seats.

### 3.0 DIMENSION AND ACCESS:

The installation of this cabin configuration does not change the dimensions of the aircraft or alter the access to any existing aircraft system.

### 4.0 LIFTING AND SHORING

No change.

### 5.0 LEVELING AND WEIGHING

Divan

Maximum Allowable Seat Weight = 80 lbs  
w/ Seat Bottom Upholstery

Base Weight of Divan Assembly w/ Restraint System = 50 lbs  
(includes empty drawer weight)

### 6.0 TOWING AND TAXIING

No change.

### 7.0 PARKING AND MOORING

No change.

## 8.0 PLACARDS AND MARKINGS

Three (3) placards are required in conjunction with this modification:

1. The divan installation requires placard part numbers 15-0288 and 32-0377-20 to be installed in plain view of the seat occupants on the forward divider.

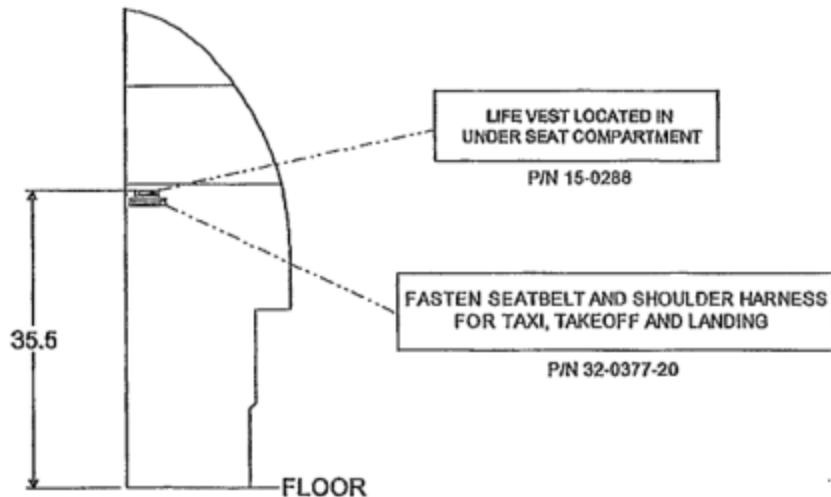


Figure 8.0A

2. A placard stating "to install harness over seat occupant's fwd shoulder" is sewn on to restraint system part numbers 3088-7-061-2396 and should be legible and easily viewed by the seat occupant.



Figure 8.0B

## 9.0 SERVICE INFORMATION

### Typical Passenger Seating Service Instructions:

#### A. Upholstery Cleaning:

##### Service Instructions

1. Remove seat back and seat bottom cushion assemblies from the interior seating components.
2. Clean the cushions in accordance with instructions issued by the company responsible for the upholstery covering so that knowledge of the upholstery material's fire retardant properties are known and will not be compromised.
3. Clean and inspect restraint system for damage, fraying, cuts or seam deterioration.
4. Inspect all attachment fittings and replace if necessary.
5. Inspect overall interior component for fit and function.

### Typical Maintenance Instructions:

#### Divan Assembly

The divans are self contained complete assemblies that mount to the existing aircraft cabin seat track using standard fittings in accordance with approved floor plans. Refer to Figure 1.0A.

#### Divan Installation

Installation of the divan requires aligned the feet on the existing seat track and attaching the divan legs using standard hardware. Refer to Installation Instruction drawing D-10666 for complete installation details and hardware part numbers.

#### Divan Removal

Removal of the divan requires loosening the attaching hardware and lifting the divan from its location on the seat track. The feet will be slid forward or aft to the end of the seat track or a gap in the track for their removal.

#### Cushions

Seat back and seat bottom cushion assemblies are removed by simply pulling the cushion inboard away from the Velcro on the sidewall or up away from the Velcro on the pan of the divan assembly, respectively. All covering and upholstery materials must comply with 14 CFR 25.853 as stated on the Finish Materials Listing AF-476. The cushion design and layout were determined & manufactured by the seat installer to match the design of the cabin interior in the aircraft. Refer to Figure 1.0D for Cushion Assembly Reference for basic assemblies.

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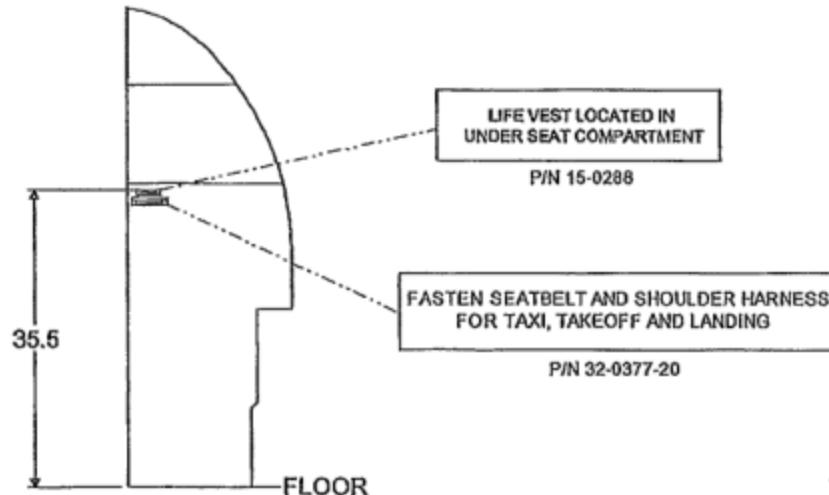


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2. A placard stating "to install harness over seat occupant's fwd shoulder" is sewn on to restraint system part numbers 3088-7-061-2396 and should be legible and easily viewed by the seat occupant.

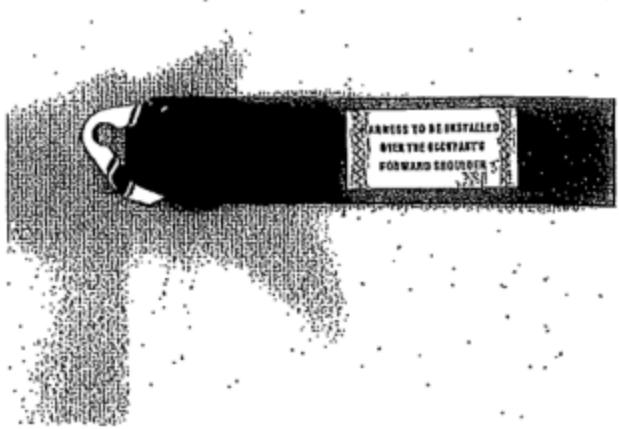


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**Inertia Reel**

Inertia reel removal is accomplished by loosening attaching hardware and removing from the divan frame bracket. Refer to Installation Instruction drawing D-10666 for complete installation details and hardware part numbers.

Refer to Figure 1.0B.

**Seat Belt**

Seat belt and removal is accomplished by loosening attaching hardware and removing from the existing aircraft seat track. Refer to Installation Instruction drawing D-10666 for complete installation details and hardware part numbers.

Refer to Figure 1.0C.

**B. RECOMMENDED OVERHAUL PERIODS**

No additional overhaul time limitations and requirements apply to the Aviation Fabricators' interior cabin configuration.

## 10.0 AIRWORTHINESS LIMITATIONS

The Airworthiness Limitations section is FAA approved and specifies maintenance required under Sec. 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

There are no new (or additional) Airworthiness Limitations associated with this equipment and /or installation.

## 11.0 TROUBLESHOOTING INFORMATION

Refer to the existing Aircraft Maintenance Manual for troubleshooting the 3 place divan installation that is required beyond the information found on the installation drawing D-10666.

For replacement parts or repair of damage parts:

Contact Aviation Fabricators at [REDACTED].

Troubleshooting this installation should only be accomplished by FAA approved repair stations with the appropriate ratings or appropriately rated operator/individuals, with required test equipment and service data.

**Inertia Reel**

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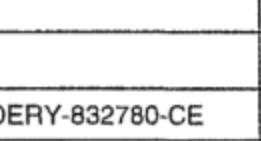
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U. S. DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

1.DATE  
5/02/2013

**STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS**

**AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION**

2.MAKE Raytheon	3.MODEL NO. 400A	4.TYPE(Airplane, Engine, Propeller, etc.) Airplane	5.NAME OF APPLICANT Constant Aviation-CLM
LIST OF DATA			
6.IDENTIFICATION TP 22681 Rev A Dated 05/02/2013	7.TITLE Skandia, Inc. Flammability Test Report Oil Burner Testing and Vertical Burner Testing		
<p>Notes:</p> <p>1) Work accomplished under Skandia Inc. WO # 254987-13, Ref Document ID 93685.</p> <p>2) Flammability test witnessing only, does not constitute installation approval of the materials.</p>			
<p>8.PURPOSE OF DATA Demonstration of compliance with material flammability requirements for S/N RK-244</p>			
<p>9.APPLICABLE REQUIREMENTS (List specific sections)</p> <p>14 CFR Part 25.853 (a) Amdt 25-116 Appendix F Part I (a)(1)(ii)</p> <p>14 CFR Part 25.853 (c) Amendment 25-116 Appendix F Part II</p>			
<p>10.CERTIFICATION - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under 14 CFR Part 183, data listed above and on attached sheets numbered _____ have been examined in accordance with established procedures and found to comply with applicable requirements of the Airworthiness Standards listed.</p> <p>I (We) Therefore <input type="checkbox"/> Recommend approval of these data  <input checked="" type="checkbox"/> Approve these data</p>			
11.SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE 	12.DESIGNATION NUMBER(S) 	13.CLASSIFICATION(S) DERY-832780-CE	
		Structural Special	



**FAA FORM 8130-6, APPLICATION FOR U.S. AIRWORTHINESS CERTIFICATE**

Form Approved O.M.B. No. 2120-0018  
Expiration Date 02/28/2013

 <p>U.S. Department of Transportation Federal Aviation Administration</p>		<h1 style="margin: 0;">APPLICATION FOR U.S. AIRWORTHINESS CERTIFICATE</h1>			<p>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 attachment. For special flight permits complete Sections II, VI, and VII as applicable.</p>						
I. AIRCRAFT DESCRIPTION	1. REGISTRATION MARK N493LX		2. AIRCRAFT BUILDER'S NAME (Make) Raytheon Aircraft Co		3. AIRCRAFT MODEL DESIGNATION 400A		4. YR. MFR. 1999		FAA CODING		
	5. AIRCRAFT SERIAL NO. RK-244		6. ENGINE BUILDER'S NAME (Make) Williams International		7. ENGINE MODEL DESIGNATION FJ44-3AP						
	8. NUMBER OF ENGINES 2		9. PROPELLER BUILDER'S NAME (Make) N/A		10. PROPELLER MODEL DESIGNATION N/A				11. AIRCRAFT IS (Check if applicable) IMPORT		
	APPLICATION IS HEREBY MADE FOR: (Check applicable items)										
II. CERTIFICATION REQUESTED	A 1	STANDARD AIRWORTHINESS CERTIFICATE (Indicate category)			HORIZONTAL	UTILITY	ACROBATIC	TRANSPORT	COMMUTER	BALLOON	OTHER
	B	<input checked="" type="checkbox"/> SPECIAL AIRWORTHINESS CERTIFICATE (Check appropriate items)									
	7	PRIMARY									
	9	LIGHT-SPORT (Indicate class)		Airplane	Power-Parachute	Weight-Shift-Control	Glider	Lighter than Air			
	2	LIMITED									
	5	PROVISIONAL (Indicate class)		1	CLASS I						
	3	RESTRICTED (Indicate operation(s) to be conducted)		2	CLASS II						
	4	EXPERIMENTAL (Indicate operation(s) to be conducted)		1	RESEARCH AND DEVELOPMENT		2	AMATEUR BUILT	3	EXHIBITION	
	8	SPECIAL FLIGHT PERMIT (Indicate operation to be conducted, then complete Section VI or VII as applicable on reverse side)		4	AIR RACING		5	CREW TRAINING	6	MARKET SURVEY	
	9	SPECIAL FLIGHT PERMIT (Indicate operation to be conducted, then complete Section VI or VII as applicable on reverse side)		0	TO SHOW COMPLIANCE WITH THE CFR		7	OPERATING (Primary Category) KIT BUILT AIRCRAFT			
C 6	MULTIPLE AIRWORTHINESS CERTIFICATE (Check ABOVE "Restricted Operation" and "Standard" or "Limited" as applicable)										
III. OWNER'S CERTIFICATION	A. REGISTERED OWNER (As shown on certificate of aircraft registration)					IF DEALER, CHECK HERE <input type="checkbox"/>					
	NAME Flight Options LLC					ADDRESS [REDACTED] Richmond Heights, OH 44143					
	B. AIRCRAFT CERTIFICATION BASIS (Check applicable blocks and complete items as indicated)					AIRWORTHINESS DIRECTIVES (Check if all applicable ADs are complied with and give the number of the last AD SUPPLEMENT available in the biweekly series as of the date of application)					
	AIRCRAFT SPECIFICATION OR TYPE CERTIFICATE DATA SHEET (Give No. and Revision No.) N/A					Bi Weekly 2013-22 10/21/2013 - 11/03/2013					
	AIRCRAFT LISTING (Give page number(s)) N/A					SUPPLEMENTAL TYPE CERTIFICATE (List number of each STC incorporated) N/A					
	C. AIRCRAFT OPERATION AND MAINTENANCE RECORDS										
<input checked="" type="checkbox"/> CHECK IF RECORDS IN COMPLIANCE WITH 14 CFR section 91.417		TOTAL AIRFRAME HOURS			TTAF 8578.62		3	EXPERIMENTAL ONLY (Enter hours flown since last certificate issued or renewed) 14.82			
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 Title 49 of the United States Code 44101 et seq. 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 11/18/2013		NAME AND TITLE (Print or type) [REDACTED]			Agent [REDACTED]						
IV. INSPECTION AGENCY	A. THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY: (Complete the section only if applicable)										
	2	14 CFR part 121 CERTIFICATE HOLDER (Give Certificate No.)		3	CERTIFICATED MECHANIC (Give Certificate No.)			6	CERTIFICATED REPAIR STATION (Give Certificate No.)		
	5	AIRCRAFT MANUFACTURER (Give name or firm)									
DATE		TITLE					SIGNATURE				
V. FAA REPRESENTATIVE CERTIFICATION	(Check ALL applicable block items A and B)				<input checked="" type="checkbox"/>	THE CERTIFICATE REQUESTED					
	A. I find that the aircraft described in Section I or VII meets requirements for				4	AMENDMENT OR MODIFICATION OF CURRENT AIRWORTHINESS CERTIFICATE					
	B. Inspection for a special flight permit under Section VII was conducted by:				FAA INSPECTOR		FAA DESIGNEE				
	DATE 11/18/2013		MID/FSDO OFFICE CLE-25	4	CERTIFICATE HOLDER UNDER		14 CFR part 65	14 CFR part 121 OR 135	14 CFR part 145		

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VI. PRODUCTION FLIGHT TESTING	A. MANUFACTURER						
	NAME		ADDRESS				
	B. PRODUCTION BASIS (Check applicable item)						
	<input type="checkbox"/>	PRODUCTION CERTIFICATE (Give production certificate number)					
	<input type="checkbox"/>	TYPE CERTIFICATE					
	<input type="checkbox"/>	OTHER:					
C. GIVE QUANTITY OF CERTIFICATES REQUIRED FOR OPERATING NEEDS							
DATE OF APPLICATION		NAME AND TITLE (Print or type)		SIGNATURE			
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"/>	FLIGHT ENGINEER	<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 Title 49 of the United States Code 44101 <del>et seq</del> ; and applicable Federal Aviation Regulations; and that the aircraft has been inspected and is safe for the flight described.							
DATE		NAME AND TITLE (Print or type)			SIGNATURE		
VII. SPECIAL FLIGHT PERMIT PURPOSES OTHER THAN PRODUCTION FLIGHT TEST	<input checked="" type="checkbox"/> A. Operating Limitations and Markings in Compliance With 14 CFR Section 91.9, As Applicable		G. Statement of Conformity, FAA Form 8130-9 (Attach when required)				
	<input checked="" type="checkbox"/> B. Current Operating Limitations Attached		H. Foreign Airworthiness Certification for Import Aircraft (Attach when required)				
	<input checked="" type="checkbox"/> C. Data, Drawings, Photographs, etc. (Attach when required)		I. Previous Airworthiness Certificate Issued in Accordance With 14 CFR Section 21.191 (a) CAR _____ (Original attached)				
	<input checked="" type="checkbox"/> D. Current Weight and Balance Information Available in Aircraft		J. Current Airworthiness Certificate Issued in Accordance With 14 CFR Section 21.191 (a) (Copy attached)				
	<input checked="" type="checkbox"/> E. Major Repair and Alteration, FAA Form 337 (Attach when required)		K. Light-Sport Aircraft Statement of Compliance, FAA Form 8130-15 (Attach when required)				
	<input checked="" type="checkbox"/> F. This inspection Recorded in Aircraft Records						



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

<b>A</b>	CATEGORY/DESIGNATION	EXPERIMENTAL
	PURPOSE	RESEARCH & DEVELOPMENT
<b>B</b>	MANUFACTURER	NAME // N/A //
	ADDRESS	// N/A //
<b>C</b>	FLIGHT	FROM // N/A //
	TO	// N/A //
<b>D</b>	N- 4931X	SERIAL NO. RK-244
BUILDER	Raytheon Aircraft Company	MODEL 400A
DATE OF ISSUANCE	Nov 18. 2013	EXPIRY Jan 12. 2014
OPERATING LIMITATIONS DATED, Nov 18. 2013		ARE PART OF THIS CERTIFICATE
<b>E</b>	DESIGNATION OR OFFICE NO.	DART833943GL

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 TITLE 14, CODE OF FEDERAL REGULATIONS (CFR).

**A** This airworthiness certificate is issued under the authority of Public Law 104-6, 49 United States Code (USC) 44704 and Title 14 Code of Federal Regulations (CFR).

**B** The 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 CFR. 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 CFR 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 14 CFR, Part 21, Section 21.181 or 21.217.

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

A	CATEGORY/DESIGNATION	<b>EXPERIMENTAL</b>	
A	PURPOSE	Research and Development	
B	MANUFACTURER	NAME	N/A
		ADDRESS	N/A
C	FLIGHT	FROM	N/A
		TO	N/A
D	N- 493LX	SERIAL NO.	RK244
BUILDER	Raytheon Aircraft Company	MODEL	400A
DATE OF ISSUANCE	MAY/20/2013	EXPIRY	NOV/16/2013
OPERATING LIMITATIONS DATED MAY/20/2013		ARE PART OF THIS CERTIFICATE	
E			DESIGNATION OR OFFICE NO.  <b>DARF-400148-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 TITLE 14, CODE OF FEDERAL REGULATIONS (CFR).

A	This airworthiness certificate is issued under the authority of Public Law 104-6, 49 United States Code (USC) 44704 and Title 14 Code of Federal Regulations (CFR).
B	The 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 CFR. 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 CFR and in accordance with conditions and limitations which may be prescribed by the FAA 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 14 CFR, Part 21, Section 21.181 or 21.217.

**EXPERIMENTAL OPERATING LIMITATIONS**  
**For Research and Development (R&D)**

REG. NO.	MAKE:	MODEL	SERIAL NO:
N493LX	Raytheon Aircraft Co	400A	RK - 244

**THESE OPERATING LIMITATIONS SHALL BE ACCESSIBLE TO THE PILOT**

1. No person may operate this aircraft unless the FAA Form 8130-7, Special Airworthiness Certificate, is displayed at the cabin or cockpit entrance and visible to passengers or flight crew members.
2. No person may operate this aircraft for other than the purpose of Research and Development to accomplish the flight operation outlined in the applicant's program letter Dated November 13.2013, which describes compliance with 14 CFR 21.193 (d) and made available to the pilot in command of the aircraft. In addition, this aircraft shall be operated in accordance with applicable air traffic and general operating rules of 14 CFR part 91, and all additional limitations herein prescribed under the provisions of 14 CFR 91.319 (i).
3. R&D flights must be conducted IAW Nextant Aerospace's Program Letter Dated November 13. 2013, within the geographical area described in the program letter:  
**R&D flights will be conducted in North America**
4. Except for takeoffs and landings, this aircraft must not be operated over densely populated areas or in congested airways.
5. This aircraft must not be operated unless it is maintained and inspected in accordance with the appropriate military technical publications and/or manufacturer's recommendation. The owner/operator must select, establish, identify, and use an inspection program set forth in 14 CFR 91.409 (e), (f), (g), and (h).  
This inspection program must be recorded in the aircraft maintenance records.
6. The Pilot In Command of this aircraft must hold an appropriate category/class rating. If required for the type of aircraft to be flown, the Pilot In Command also must hold either an appropriate type rating or a Letter of Authorization issued by an FAA Flight Standards Operations Inspector.
7. This aircraft may be operated under VFR, day and/or night.
8. This Aircraft may be operated under IFR, and must be properly equipped for instrument flight in accordance with 14 CFR 91.205.
9. No person may operate this aircraft for carrying persons or property for compensation or hire.
10. No person may be carried in this aircraft during flight unless that person is essential to the purpose of the flight.
11. The Pilot In Command of this aircraft must advise each passenger of the experimental nature of this aircraft, And explain that it does not meet the certification requirements of a standard certified aircraft.
12. **This Aircraft must contain the Beech Model 400A Flight Manual with Nextant 400XT AFM Section Insert.** Placards, markings, etc. (or other operating instructions developed for an STC modification), as required by 14 CFR 91.9.
13. This Aircraft is Prohibited from Aerobatic Flight , that is an Intentional Maneuver involving an Abrupt change in the Aircrafts attitude, an abnormal attitude, or abnormal acceleration not necessary for normal flight, unless part of show compliance flight testing
14. This aircraft shall not be used for glider towing, banner towing, or intentional parachute jumping.

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15. No person shall operate this aircraft unless within the preceding 12 Calendar months it has had a condition inspection performed in accordance with 14 CFR Part 43, appendix D, or other FAA approved programs, and was found to be in a condition for safe Operation. This inspection will be recorded in the aircraft maintenance records.
16. FAA-certificated Repair Stations and FAA - Certified mechanics with appropriate ratings, as authorized by 14 CFR 43.3 may perform inspections required by these limitations.
17. Inspections shall be recorded in the aircraft maintenance records showing the following or a similarly worded statement: "I certify that this aircraft has been inspected on (insert date) in accordance with the scope and detail of 14 CFR part 43, appendix D, or other FAA approved programs and found to be in a condition for safe operation." The entry will include the aircraft's totaltime-in-service, and the name, signature, certificate number, and type of certificate held by the person performing the inspection.
18. If the aircraft, engine, or propeller operating limitations are exceeded, an appropriate entry will be made in the aircraft records.
19. This aircraft must not be operated unless it is maintained and inspected in accordance with the requirements of 14 CFR Part 43.
20. This aircraft must display the word "EXPERIMENTAL" in accordance with 14 CFR 45.23(b).
21. The Pilot In Command of this aircraft must notify air traffic control of the experimental nature of this aircraft when operating into or out of airports with operating control towers. The Pilot In Command must plan routing that will avoid densely populated areas and congested airways when operating VFR.
22. This aircraft does not meet the requirements of the applicable, comprehensive, and detailed Airworthiness code as provided by Annex 8 of the International Convention of Civil Aviation. The Owner/Operator of this aircraft must obtain written permission from another country's Civil Airworthiness Authority (CAA) prior to operating this aircraft in or over that country. That written permission must be carried aboard the aircraft together with the U.S. airworthiness certificate and, upon request, be made available to an FAA Inspector or the CAA in the country of operation.
23. Aircraft instruments and equipment installed and used under 14 CFR 91.205 must be inspected and maintained in accordance with the requirements of 14 CFR parts 43 and 91. Any maintenance or inspection of this equipment must be recorded in the Aircraft Maintenance records.
24. Application must be made to the geographically responsible FSDO or MDO for any revision to these operating limitations.
25. 14 CFR 47.45 requires that the FAA Aircraft Registry must be notified within 30 days of any change in the aircraft registrant's address. Such notification is to be made by submitting Aeronautical Center Form 8050-1, Aircraft Registration Application, to AFS-750 in Oklahoma City, OK.
26. Condition Inspections must be performed in Accordance with 14 CFR Part 43 Appendix D at least every 100 Hrs Flight Hours. This Inspection must be performed by an FAA Certified Mechanic with the Appropriate Ratings as deemed in 14 CFR. 43.3
27. The Special Airworthiness Certificate and Operation Limitations will expire on. Jan 12.2014

Designated Airworthiness Representative  
DART833943GL  
Issued at Cuyahoga Airport

Date Issued: November 18 2013



# nextant aerospace

## Quality Assurance Department

To:

Federal Aviation Administration  
Flight Standards District Office  
[REDACTED]

Date: November 13, 2013

North Olmsted, Ohio 44070

From:

Chief Inspector  
Nextant Aerospace

Subject: FAA Program letter for Beech Jet 400A, Serial number RK-244, Registration Number N493LX.

Ref: FAA order 8130.2G

**1. Registered Owner:** Flight Options LLC. Address: [REDACTED], Richmond Heights, Ohio 44143

**2. Aircraft Description:** Twin Engine Light Jet

- a. Registration: N493LX
- b. Aircraft Builder Raytheon Aircraft Co
- c. Year mfg.: 1999
- d. Aircraft Serial Number: RK-244
- e. Aircraft Model Designation: Beech Jet 400A

**3. The program purpose for the aircraft will be used** To complete the flight performance profile in Research & Development Category in support of FAA Project SA 15250LA-T (Replacement of Wingtips)

**4. Program Duration**

- a. List the estimated flight hours required for program: 20 Hrs
- b. Number of flights: 20
- c. Number of days: 60

**5. Describe the areas over which the flights to be conducted and address of base operation:**

The base of operation is Cuyahoga County Airport, 355 Richmond, Cleveland, Ohio. Flights will be conducted in North America.

**6. Describe the aircraft configuration:**

This Aircraft is a standard Beech Jet 400A with new Williams FJ44-3AP engines and upgraded avionics with full authority digital engine controls (FADEC)

- a. Maintenance Program
  - 1. Hawker Beechcraft Maintenance Manual Chapter 5 Rev C22 or later with the exception of the JT15D Engines.
  - 2. Williams International recommended FJ44 3A Maintenance manual (FADEC maintenance is covered in 71-00-00 of this manual)
  - 3. Maintenance Requirements for the Throttle Quadrant is addressed in the Instructions for Continued Airworthiness on the FJ44-3AP STC.

Chief Inspector  
Nextant Aerospace  
Tel Work [REDACTED]  
Cell [REDACTED]

NEXTANT  
202  
INSPECT

430

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EFTA00011980

[REDACTED]  
Cleveland, Ohio 44143  
[REDACTED]  
[REDACTED]

flightOptions

November 13, 2013

Nextant Aerospace, LLC  
[REDACTED]

Cleveland, Ohio 44143  
Attention: [REDACTED]

Re: RK-244 – Agent Authorization

To whom it may concern:

This letter is to confirm that Flight Options, LLC ("FO") authorizes Nextant Aerospace, LLC, as FO's agent, for a Beechjet 400A, bearing serial number RK-244 and FAA Registration Number N493LX (also identified as a "Nextant 400XT"), which is owned by FO, for any and all authorized FAA actions in regards to:

Airworthiness Classification Experimental

Airworthiness Classification Standard

Sincerely,

Flight Options, LLC

By: [REDACTED]

Vice President, Administration & Contracts



NOTARY PUBLIC  
STATE OF OHIO

11/13/13

My Comm. Expires April 24, 2016

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101A742 100-107

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## FAA FORM 8130-6, APPLICATION FOR U.S. AIRWORTHINESS CERTIFICATE

Form Approved O.M.B. No. 2120-0018  
Expiration Date 02/28/2013

 U.S. Department of Transportation Federal Aviation Administration		<b>APPLICATION FOR U.S. AIRWORTHINESS CERTIFICATE</b>				<b>INSTRUCTIONS</b> - 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 attachment. For special flight permits complete Sections II, VI, and VII as applicable.						
		1. REGISTRATION MARK N493LX	2. AIRCRAFT BUILDER'S NAME (Make) Raytheon Aircraft Co	3. AIRCRAFT MODEL DESIGNATION 400A	4. YR. MFR. 1999							FAA CODING
I. AIRCRAFT DESCRIPTION	5. AIRCRAFT SERIAL NO. RK244	6. ENGINE BUILDER'S NAME (Make) Williams International	7. ENGINE MODEL DESIGNATION FJ44-3AP									
	8. NUMBER OF ENGINES 2	9. PROPELLER BUILDER'S NAME (Make) N/A	10. PROPELLER MODEL DESIGNATION N/A			11. AIRCRAFT IS (Check if applicable)		IMPORT				
II. CERTIFICATION REQUESTED	APPLICATION IS HEREBY MADE FOR: (Check applicable items)											
	A 1	STANDARD AIRWORTHINESS CERTIFICATE (Indicate category)			NORMAL	UTILITY	ACROBATIC	TRANSPORT	COMMUTER	BALLOON	OTHER	
	B	<input checked="" type="checkbox"/> SPECIAL AIRWORTHINESS CERTIFICATE (Check appropriate items)										
	7	PRIMARY										
	9	LIGHT-SPORT (Indicate class)			Airplane	Power-Parachute	Weight-Shift-Control	Glider	Lighter than Air			
	2	LIMITED										
	5	PROVISIONAL (Indicate class)			1	CLASS I						
	3	RESTRICTED (Indicate operation(s) to be conducted)			2	CLASS II						
	4	EXPERIMENTAL (Indicate operation(s) to be conducted)			1	RESEARCH AND DEVELOPMENT		2	AERIAL SURVEY	3	AERIAL ADVERTISING	
	8				4	AIR RACING		5	PATROLLING	6	WEATHER CONTROL	
	8				0	TO SHOW COMPLIANCE WITH THE CFR		7	OPERATING (Primary Category) KIT BUILT AIRCRAFT			
	C 6	SPECIAL FLIGHT PERMIT (Indicate operation to be conducted, then complete Section VI or VII as applicable on reverse side)				8A	Existing aircraft without an airworthiness certificate & do not meet § 103.1					
					8B	Operating Light-Sport Kit-built						
					8C	Operating light-sport previously issued special light-sport category airworthiness certificate under § 21.190						
					9	UNMANNED AIRCRAFT	9A	RESEARCH AND DEVELOPMENT	9C	CREW TRAINING		
					9B	MARKET SURVEY						
					1	FERRY FLIGHT FOR REPAIRS, ALTERATIONS, MAINTENANCE, OR STORAGE						
					2	EVACUATE FROM AREA OF IMPENDING DANGER						
					3	OPERATION IN EXCESS OF MAXIMUM CERTIFICATED TAKE-OFF WEIGHT						
					4	DELIVERING OR EXPORTING		5	PRODUCTION FLIGHT TESTING			
					6	CUSTOMER DEMONSTRATION FLIGHTS						
	C 6 MULTIPLE AIRWORTHINESS CERTIFICATE (Check ABOVE "Restricted Operation" and "Standard" or "Limited" as applicable)											
III. OWNER'S CERTIFICATION	A. REGISTERED OWNER (As shown on certificate of aircraft registration)				IF DEALER, CHECK HERE <input type="checkbox"/>							
	NAME Flight Options,LLC Flight Options LLC				ADDRESS Richmond Heights, OH 44143							
	B. AIRCRAFT CERTIFICATION BASIS (Check applicable blocks and complete items as indicated)											
	AIRCRAFT SPECIFICATION OR TYPE CERTIFICATE DATA SHEET (Give No. and Revision No.) N/A				<input checked="" type="checkbox"/> AIRWORTHINESS DIRECTIVES (Check if all applicable ADs are complied with and give the number of the last AD SUPPLEMENT available in the biweekly series as of the date of application) Bi-Weekly 2013-09, 04/22/2013 - 05/05/2013							
	AIRCRAFT LISTING (Give page number(s)) N/A				SUPPLEMENTAL TYPE CERTIFICATE (List number of each STC incorporated) N/A							
	C. AIRCRAFT OPERATION AND MAINTENANCE RECORDS											
	CHECK IF RECORDS IN COMPLIANCE WITH 14 CFR section 91.417		TOTAL AIRFRAME HOURS 8563.80			3	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 Title 49 of the United States Code 44101 et seq. 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 05/13/2013											
	IV. INSPECTION AGENCY VERIFICATION	A. THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY: (Complete this section only if 14 CFR part 21, 135, or 145)										
2		14 CFR part 121 CERTIFICATE HOLDER (Give Certificate No.)	3	CERTIFICATED MECHANIC (Give Certificate No.)			6	CERTIFICATED REPAIR STATION (Give Certificate No.)				
5		AIRCRAFT MANUFACTURER (Give name or firm)										
DATE MAY/20/2013		TITLE CE-48			SIGNATURE							
V. FAA REPRESENTATIVE CERTIFICATION	(Check ALL applicable block items A and B)				<input checked="" type="checkbox"/> THE CERTIFICATE REQUESTED							
	A. I find that the aircraft described in Section I or VII meets requirements for				4	AMENDMENT OR MODIFICATION OF CURRENT AIRWORTHINESS CERTIFICATE						
	B. Inspection for a special flight permit under Section VII was conducted by:					FAA INSPECTOR	FAA DESIGNEE	CERTIFICATE HOLDER UNDER		14 CFR part 65	14 CFR part 121 OR 135	14 CFR part 145
DATE MAY/20/2013		MIDO/FSDO OFFICE	4									



VI. PRODUCTION FLIGHT TESTING	A. MANUFACTURER				
	NAME		ADDRESS		
	B. PRODUCTION BASIS (Check applicable item)				
		PRODUCTION CERTIFICATE (Give production certificate number)			
		TYPE CERTIFICATE			
OTHER:					
C. GIVE QUANTITY OF CERTIFICATES REQUIRED FOR OPERATING NEEDS					
DATE OF APPLICATION	NAME AND TITLE (Print or type)			SIGNATURE	
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					
	PILOT	CO-PILOT	FLIGHT ENGINEER	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 Title 49 of the United States Code 44101 <u>et seq.</u> and applicable Federal Aviation Regulations; and that the aircraft has been inspected and is safe for the flight described.					
DATE	NAME AND TITLE (Print or type)			SIGNATURE	
VII. AIRWORTHINESS DOCUMENTATION (FAA/DESIGNEE use only)					
X	A. Operating Limitations and Markings in Compliance With 14 CFR Section 91.9, As Applicable		G. Statement of Conformity, FAA Form 8130-9 (Attach when required)		
X	B. Current Operating Limitations Attached		H. Foreign Airworthiness Certification for Import Aircraft (Attach when required)		
	C. Data, Drawings, Photographs, etc. (Attach when required)		I. Previous Airworthiness Certificate Issued in Accordance With 14 CFR Section <u>21.183(a)</u> CAR _____ (Original attached)		
X	D. Current Weight and Balance Information Available in Aircraft		J. Current Airworthiness Certificate Issued in Accordance With 14 CFR Section <u>21.191(a)</u> (Copy attached)		
	E. Major Repair and Alteration, FAA Form 337 (Attach when required)		K. Light-Sport Aircraft Statement of Compliance, FAA Form 8130-15 (Attach when required)		
X	F. This inspection Recorded in Aircraft Records				



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

A	CATEGORY/DESIGNATION <b>EXPERIMENTAL</b>	
A	PURPOSE <b>Research and Development</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- 493LX BUILDER <b>Raytheon Aircraft Company</b>	SERIAL NO. <b>RK244</b> MODEL <b>400A</b>
	DATE OF ISSUANCE <b>MAY/20/2013</b>	EXPIRY <b>NOV/16/2013</b>
E	OPERATING LIMITATIONS DATED <b>MAY/20/2013</b>	ARE PART OF THIS CERTIFICATE DESIGNATION OR OFFICE NO. <b>DARF-400148-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 TITLE 14, CODE OF FEDERAL REGULATIONS (CFR).

A	This airworthiness certificate is issued under the authority of Public Law 104-6, 49 United States Code (USC) 44704 and Title 14 Code of Federal Regulations (CFR).
B	The 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 CFR. 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 CFR and in accordance with conditions and limitations which may be prescribed by the FAA 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 14 CFR, Part 21, Section 21.181 or 21.217.

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
N493LX	Raytheon Aircraft Co. 400A	RK-244	Transport

5 AUTHORITY AND BASIS FOR ISSUANCE

This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein.

Exceptions:

None

6 TERMS AND CONDITIONS

Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations and the aircraft is registered in the United States.

DATE OF ISSUANCE		DESIGNATION NUMBER
R 10/01/1999		AEA-FSDO-23

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 (3-08)

EFTA00011989



Cleveland, Ohio 44143



May 8, 2013

VIA HAND DELIVERY

Nextant Aerospace, LLC

Cleveland, Ohio 44143  
Attention: [REDACTED]

Re: *RK-244 – Agent Authorization*

Ladies and Gentlemen:

This letter is to confirm that Flight Options, LLC ("Flight Options") authorizes Nextant Aerospace, LLC, as Flight Options' agent, for a Beechjet 400A, bearing serial number RK-244 and FAA Registration Number N493LX, which is owned by Flight Options, for any and all authorized FAA actions.

Sincerely,

FLIGHT OPTIONS, LLC

[REDACTED]  
Vice President of Whole Aircraft  
Acquisitions and Sales



NOTARY PUBLIC

STATE OF OHIO

My Comm. Expires April 24, 2016

5/17/13

EFTA00011991





U.S. Department  
of Transportation

Federal Aviation  
Administration

## EXPERIMENTAL OPERATING LIMITATIONS

<b>PURPOSE</b>	<b>Research and Development</b>		
<b>MAKE</b>	Raytheon Aircraft Company	<b>MODEL</b>	400A
<b>REGISTRATION</b>	N493LX	<b>SERIAL NUMBER</b>	RK244

- 1) No person may operate this aircraft unless FAA Form 8130-7 is displayed at the cabin or cockpit entrance and is visible to passengers or flightcrew members.
- 2) No person may operate this aircraft for other than the purpose of **RESEARCH AND DEVELOPMENT** to accomplish the flight operation outlined in the program letter, dated May 13, 2013, which describes compliance with 14 CFR §21.193(d) and has been made available to the pilot-in-command of the aircraft. In addition, this aircraft must be operated in accordance with applicable air traffic and general operating rules of 14 CFR Part 91, and all additional limitations herein prescribed under the provisions of 14 CFR § 91.319(i).
- 3) All flights must be conducted **within the 48 contiguous United States of America**, except for takeoffs and landings, this aircraft must not be operated over densely populated areas or in congested airways except when otherwise directed by Air Traffic Control or in an emergency situation.
- 4) N/A
- 5) N/A
- 6) N/A
- 7) This aircraft must not be operated unless it is inspected and maintained in accordance with appropriate military technical publications and/or manufacturer's recommendations. The owner/operator must select, establish, identify, and use an inspection program as set forth in 14 CFR §91.409(e), (f), (g) and (h). This inspection program must be recorded in the aircraft maintenance records.
- 8) The Pilot in Command of this aircraft must hold an appropriate category/class rating. If required for the type of aircraft to be flown, the Pilot in Command must also hold either an appropriate type rating or a letter of authorization issued by an FAA Flight Standards Operations Inspector.
- 9) N/A
- 10) N/A
- 11) This aircraft may be operated under IFR, and must be properly equipped for instrument flight in accordance with 14 CFR § 91.205. All test maneuvers must be conducted during day Visual Meteorological Conditions (VFR).
- 12) No person may operate this aircraft for carrying persons or property for compensation or hire.
- 13) No person may be carried in this aircraft during flight unless that person is essential to the purpose of the flight.
- 14) N/A
- 15) The pilot in command of this aircraft must advise each passenger of the experimental nature of this aircraft, and explain that it does not meet the certification requirements of a standard certificated aircraft.
- 16) This aircraft must contain the placards, markings, etc., (or other operating instructions developed for an STC modification) as required by 14 CFR §91.9.



## EXPERIMENTAL OPERATING LIMITATIONS

<b>PURPOSE</b>	Research and Development		
<b>MAKE</b>	Raytheon Aircraft Company	<b>MODEL</b>	400A
<b>REGISTRATION</b>	N493LX	<b>SERIAL NUMBER</b>	RK244

Page 2 of 3

- 17) This aircraft is prohibited from aerobatic flight; that is, an intentional maneuver involving an abrupt change in the aircraft's attitude, an abnormal attitude, or abnormal acceleration not necessary for normal flight.
- 18) This aircraft may conduct aerobatic flight in accordance with 14 CFR § 91.303. Aerobatics must not be attempted until sufficient flight experience has been gained to establish that the aircraft is satisfactorily controllable and in compliance with 14 CFR § 91.319(b). Aerobatic maneuvers intended to be performed must be satisfactorily accomplished and recorded in the aircraft records during the flight test period.
- 19) N/A
- 20) This aircraft must not be used for glider towing, banner towing, or intentional parachute jumping.
- 21) No person must operate this aircraft unless within the preceding 12 calendar months it has had a condition inspection performed in accordance with the scope and detail of 14 CFR part 43 appendix D, or other FAA-approved programs and was found to be in a condition for safe operation. This inspection will be recorded in the aircraft maintenance records.
- 22) FAA-certificated repair stations and FAA-certificated mechanics with appropriate ratings as authorized by 14 CFR §43.3 may perform inspections required by these operating limitations.
- 23) Inspections must be recorded in the aircraft maintenance records showing the following or a similarly worded statement: **"I certify that this aircraft has been inspected on (insert date) in accordance with the scope and detail of 14 CFR part 43, appendix D, or other FAA-approved programs, and was found to be in a condition for safe operation."** The entry will include the aircraft total time-in-service, and the name, signature, certificate number and type of certificate held by the person performing the inspection.
- 24) If aircraft, engine, or propeller operating limitations are exceeded, an appropriate entry will be made in the aircraft records.
- 25) This aircraft must not be operated unless it is maintained and inspected in accordance with the requirements of 14 CFR Part 43.
- 26) This aircraft must display the word **EXPERIMENTAL** in accordance with 14 CFR §45.23(b).
- 27) The pilot-in-command of this aircraft must notify Air Traffic Control of the experimental nature of this aircraft when operating into or out of airports with operating control towers. The pilot in command must plan routing that will avoid densely populated areas and congested airways when operating VFR.
- 28) This aircraft does not meet the requirements of the applicable, comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation (ICAO). The owner/operator of this aircraft must obtain written permission from another country's Civil Airworthiness Authority (CAA) prior to operating this aircraft in or over that country. That written permission must be carried aboard the aircraft together with the U. S. airworthiness certificate, and upon request, be made available to an FAA inspector or the CAA in the country of operation.
- 29) Aircraft instruments and equipment installed and used under 14 CFR §91.205 must be inspected and maintained in accordance with the requirements of parts 14 CFR parts 43 and 91. Any maintenance or inspection of this equipment must be recorded in the aircraft maintenance records.
- 30) Application must be made to the geographically responsible MIDO (Cleveland, OH MIDO) for any revision to these operating limitations.
- 31) 14 CFR § 47.45 requires that the FAA Aircraft Registry must be notified within 30 days of any change in the aircraft registrant's address. Such notification is to be made by submitting Aeronautical Center Form 8050-1 to AFS-750 in Oklahoma City, Oklahoma.
- 32) Condition inspections must be performed in accordance with 14 CFR part 43, appendix D at least every 100 flight hours. The inspections must be performed by an FAA-certificated mechanic with appropriate ratings as defined in 14 CFR § 43.3



**EXPERIMENTAL OPERATING LIMITATIONS**

<b>PURPOSE</b>	Research and Development		
<b>MAKE</b>	Raytheon Aircraft Company	<b>MODEL</b>	400A
<b>REGISTRATION</b>	N493LX	<b>SERIAL NUMBER</b>	RK244

Page 3 of 3

33) Familiarization flights must be conducted only over sparsely populated areas. If aerobatics are involved, the applicant must inform the local FAA office and additional limitations may be imposed as necessary.

[Redacted]  
Signature

DARF-400148-CE

May 20, 2013



# nextant aerospace

## Quality Assurance Department

To:

Federal Aviation Administration  
Flight Standards District Office  
[REDACTED]

Date: May 13, 2013

North Olmsted, Ohio 44070

From:

[REDACTED]  
Director of Quality Assurance  
Nextant Aerospace

Subject: FAA Program letter for Beech Jet 400A, Serial number RK244, Registration Number N493LX.

Ref: FAA order 8130.2G

**1. Registered Owner:** Flight Options LLC . Address: [REDACTED] Richmond Heights, Ohio 44143

**2. Aircraft Description:** Twin Engine Light Jet

- a. Registration: N493LX
- b. Aircraft Builder Raytheon Aircraft Co
- c. Year mfg.: 1999
- d. Aircraft Serial Number: RK244
- e. Aircraft Model Designation: Beech Jet 400A

**3. The program purpose for the aircraft will be used** To complete the flight performance profile in Research & Development Category in support of FAA Project SA 15250LA-T (Replacement of Wingtips)

**4. Program Duration**

- a. List the estimated flight hours required for program: 300 Hrs
- b. Number of flights: 100
- c. Number of days: 180

**5. Describe the areas over which the flights to be conducted and address of base operation:**

The base of operation is Cuyahoga County Airport, 355 Richmond, Cleveland, Ohio. Flights will be conducted in North America.

**6. Describe the aircraft configuration:**

This Aircraft is a standard Beech Jet 400A with new Williams FJ44-3AP engines and upgraded avionics with full authority digital engine controls (FADEC)

- a. Maintenance Program
  - 1. Hawker Beechcraft Maintenance Manual Chapter 5 Rev C22 or later with the exception of the JT15D Engines.
  - 2. Williams International recommended FJ44 3A Maintenance manual (FADEC maintenance is covered in 71-00-00 of this manual)
  - 3. Maintenance Requirements for the Throttle Quadrant is addressed in the Instructions for Continued Airworthiness on the FJ44-3AP STC.

[REDACTED]  
Senior Inspector  
Nextant Aerospace

EFTA00011999



**LOG BOOK ENTRY**  
**from Designated Airworthiness Representative (DAR)**

REGISTRATION NUMBER	AIRCRAFT MAKE/MODEL	SERIAL No.	TT/TSN	LANDINGS/CYCLES
N493LX	Raytheon Aircraft Company 400A	RK244	8563.8	7115

I find that the aircraft meets the requirements for the certification requested and have issued a Special Airworthiness Certificate dated May 20, 2013 for the purpose of Research and Development. Limitations dated May 20, 2013 and issued with this certificate must be complied with.

The aircraft must be maintained in accordance with manufacturer's requirements unless another FAA approved maintenance program is utilized. Issuance of this certificate does not eliminate or replace any required maintenance requirements.

The Special Airworthiness Certificate has been issued as required to support Research and Development flight-testing as defined in the applicant's program letter. The Standard Airworthiness Certificate dated R 10/01/1999 has been superseded.

MAY/20/2013

Date

\_\_\_\_\_





U.S Department of  
Transportation  
Federal Aviation  
Administration

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

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

Electronic Tracking Number

For FAA Use Only

**INSTRUCTIONS:** Print or type all entries. See 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	Nationality and Registration Mark <b>N493LX</b>		Serial No <b>RK-244</b>
	Make <b>Raytheon Aircraft Company</b>	Model <b>400A</b>	Series
2. Owner	Name (As shown on registration certificate) <b>Flight Options .LLC</b>		Address (As shown on registration certificate) Address City <b>Richmond Heights</b> State. <b>OH</b> Zip <b>44143-1453</b> Country <b>USA</b>

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial Number
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above) _____	
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT	_____	_____	
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER	_____	_____	
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type _____	_____	
			Manufacturer _____		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency			
Name <b>Nextant Aerospace</b>	Address [REDACTED]	<input type="checkbox"/> U.S. Certificated Mechanic	<input type="checkbox"/> Manufacturer		
City <b>Cleveland</b>	State. OH [REDACTED]	<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.		
Zip <b>44143-1453</b>	Country <b>USA</b>	<input checked="" type="checkbox"/> Certificated Repair Station	CRS # <b>25NR667B</b>		
<input type="checkbox"/> Certificated Maintenance Organization					

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

Extended range fuel per 14 CFR Part 43 App. B	<input type="checkbox"/>	<b>05/30/2013</b>
---	--------------------------	-------------------

7. Approval for Return to Service

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

BY	FAA Fit Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport
	FAA Designee	X Repair Station	Inspection Authorization	Other (Specify)
Certificate or Designation No. <b>CRS # 25NR667B</b>		<b>05/30/2013</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.)

N493LX

05/30/2013

Nationality and Registration Mark

Date

Part I of 3

The Following Equipment was removed along with Associated Hardware.

EFD-871	622-9345-203	Electronic Flight Display
EFD-871	622-9345-203	Electronic Flight Display
MFD-871	622-9434-213	Multi Function Display
ICU-85	622-6189-002	Internal Compensation Unit
ICU-85	622-6189-002	Internal Compensation Unit
AHC-85E	622-9336-400	Attitude/Heading Computer
AHC-85E	622-9336-400	Attitude/Heading Computer
SDU-640B	622-9735-001	Sensor Display Unit
SDU-640B	622-9735-001	Sensor Display Unit
DCP-5000	822-1028-011	Display Control Panel
DCP-5000	822-1028-011	Display Control Panel
ARP-851	622-9500-011	Altitude Reference Panel
ARP-851	622-9500-011	Altitude Reference Panel
AAP-851	822-0328-011	Altitude Awareness Panel
AAP-851	822-0328-011	Altitude Awareness Panel
CHP-850	622-7397-002	Course Heading Panel
DBU-4100	822-0014-002	Data Base Unit
DAU-650	622-9344-101	Data Acquisition Unit
SDD-640A	622-9347-001	Sensor Display Driver
IOC-4000 (4)	622-9814-514	Card Assembly
MDC-4000	622-9818-751	Maintenance Computer
CSU-4000 (2)	822-0049-002	Configuration Strapping Unit
FMC-5000 (4)	822-0891-008	Flight Management Computer
PWR-4000 (4)	622-9945-021	IAPS Power Card
GPS-4000	822-0931-003	GPS Receiver
Mounts	622-9430-002	EFD /MFD Mounts
EFB		Electronic Flight Bag Mounting

 Additional Sheets Are Attached



**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.)

N493LX

5/30/2013

Nationality and Registration Mark

Date

Page 2 of 3

Installed the Following Equipment along with Associated Hardware.

Model	Part Number	Description	Weight	Arm
CCP-3000	822-1746-002	Cursor Control Panel	2.60	90.0
CCP-3000	822-1746-002	Cursor Control Panel	2.60	90.0
DCU-3001C	822-2362-003	Data Concentrator Unit	5.0	325
DCU-3001C	822-2362-003	Data Concentrator Unit	5.0	325
ECU-3000	822-1200-209	External Compensation Unit	0.40	57.5
ECU-3000	822-1200-209	External Compensation Unit	0.40	57.5
FSU-5010	822-1543-101	File Server Unit (1 <sup>st</sup> IFIS)	6.5	60.83
ECU-3000	822-1200-998	File Server Unit (1st IFIS)	0.40	57.5
AFD-3010E	822-1753-416	Adaptive Flight Display	12.90	89.2
AFD-3010E	822-1753-416	Adaptive Flight Display	12.90	89.2
AFD-3010E	822-1753-416	Adaptive Flight Display	12.90	89.2
IMT-3010	822-1140-401	AFD Mounting Rack	4.40	85.0
IMT-3010	822-1140-401	AFD Mounting Rack	4.40	85.0
IMT-3010	822-1140-401	AFD Mounting Rack	4.40	85.0
IMT-3010	822-1140-401	AFD Mounting Rack	4.40	85.0
	10852B01Y00	Fuel Quantity Conditioner	0.90	324
	PC920-2A2000PH-2A1	Fuel Flow Conditioner	1.10	325
GPS-4000S	822-2189-004	GPS Receiver	6.0	37
	CI 429-410	GPS Antenna	1.0	166.14
Amp Cluster	N241100-002	DC Voltmeter	1.5	97.4
	373-93-1501-1	Speed Switch (2)	0.25	89.2
DBU-5010E	822-3000-202	Data Base Unit	1.60	134.5
PS-835D	501-1228-004	Power Supply	12.5	52.9
MMT-5000	822-1811-003	File Server Unit Rack	0.30	57.5
MMT-3010 (2)	822-1290-003	AHS Mounting Rack	1.80	57.5
XM WR-1000	822-2031-002	XM Weather	1.5	41.0
CHP-3010	822-1280-003	Course Heading Panel	1.30	92.5
OCM-4100	822-1463-228	Options Configuration Module. WAAS/LPV	0.30	57.5
OCM-4100	822-1463-228	Options Configuration Module. WAAS/LPV	0.30	57.5

 Additional Sheets Are Attached



**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.)

N493LX

05/30/2013

Nationality and Registration Mark

Date

Page 3 of 3

Model	Part Number	Description	Weight	Arm
CSU-4100 (2)	822-1364-002	Configuration Strapping Unit	1.60	55.7
MDC-3110	822-1987-006	Maintenance Data Computer	0.80	55.7
FMC-6000 (2)	822-0868-123	Flight Management Computer	1.90	55.7
ADC-850D (2)	822-0389-468	Air Data Computer	5.30	60.83
AHC-3000A (2)	822-1378-001	Attitude Heading Computer	4.80	57.5
DCP-3030 (2)	822-1828-002	Display Control Panel	1.90	89.96
PWR-4000 (4)	622-9945-022	IAPS Power Card	1.3	55.0
IOC-4100 (4)	822-1362-511	Input/output Concentrator	0.8	55.0
	LT-4001-010	Master Caution Panel	1.3	87.0
Rev. Panel	373-91-3203-1	Pilot Reversion Panel	0.2	88.0
Rev. Panel	373-91-3203-3	Co-pilot Reversion Panel	0.2	88.0
9-PED	373-91-3203-9	9-Pedestal Panel	1.8	92.89
	345-6196	ELT Switch	0.2	88.0
Annunciator	Led-42-12-BB-E0Y47	AUX BATT (1/2) Annunciator	0.05	88.0
Annunciator (2)	Led-40-18-BB-E0Y45	Pull Up/ Terrain Annunciator	0.05	88.0
Annunciator	2-F840231	Terrain Inhibit/ Terrain Fail	0.05	88.0

In Accordance with STC ST10959SC. See Attached Copy

AFM Supplement, Nextant Aerospace Doc. No. 373-00-0023 Rev IR Dated 09/02/2011 or later FAA approved revision, installed on Aircraft.

Equipment Pilot Guides are Installed in the Aircraft as Portable Document Format (.pdf) via supplied I-Pad.

NOTE: Portable electronic devices used to store required aircraft records required by Part 91.9 are considered Electronic Flight Bags (EFB) per FAA Advisory Circular AC 120-76B par 4-g. Commercial operators are required to obtain authorization for their use from their managing Flight Standards District Office.

Instructions for Continued Airworthiness (ICA) Ref Nextant Aerospace Document 373-00-0002.Rev C or Later are included in the Aircraft Maintenance Records

Carried out System Ground Test Plan IAW Master Drawing List (MDL) 373-00-004 Rev C.

Carried out Hawker Beechcraft Service Bulletin 34-3431 Reduced Vertical Separation Minimum (RVSM) Airframe Inspection / Modification. Performed FAR 91.411Inspection per Part 43 appendix "E" Pitot Static & FAR 91.413 Inspection per Part 43 appendix "F" Transponder System checks.

Additional Sheets Are Attached



United States of America  
Department of Transportation -- Federal Aviation Administration

# Supplemental Type Certificate

Number ST10959SC

This certificate is issued to

Nextant Aerospace LLC

[REDACTED]  
Richmond Heights, OH 44143

certifies that the change in the type design for the following product with the limitations and conditions hereinafter specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations. (See Pages 3 and 4 for complete certification basis.)

Original Product - Type Certificate Number A16SW

Make. Hawker Beechcraft Corp.

Model. 400A

Description of Type Design Change. Installation of Rockwell Collins Pro Line 21 Electronic Flight Instrument System (EFIS) with Rockwell Collins FMS-6100, Localizer Performance with Vertical Guidance (LPV) approach capability and Universal Avionics Systems Company (UASC) Terrain Awareness Warning System (TAWS) in accordance with Nextant Aerospace LLC Master Drawing List Doc. No. 373-00-0001 Revision W, dated March 29, 2012, or later FAA approved version.

*Limitations and Conditions:*

- 1) The installer must determine whether this design change is compatible with previously approved modifications.
- 2) If the holder agrees to permit another person to use this certificate to alter a product, the holder must give that person written evidence of that permission.
- 3) For aircraft equipped with Pratt & Whitney JT15D Engines FAA approved Airplane Flight Manual Supplement, Nextant Aerospace LLC Doc. No. 373-00-0008 Revision IR, dated 10/19/2009, or later FAA approved version, is required on board the modified aircraft.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

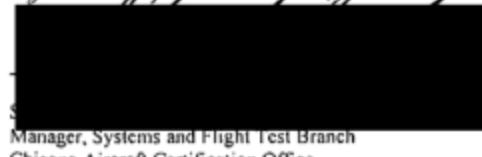
Date of application: June 26, 2008

Date reviewed:

Date of issuance: October 19, 2009

Date amended: September 26, 2011; April 05, 2012

By direction of [Signature]



(Title)



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



United States of America  
Department of Transportation - Federal Aviation Administration  
**Supplemental Type Certificate**  
(Continuation Sheet)

*Number* ST10959SC

*Date of issuance:* October 19, 2009  
Date Amended: September 26, 2011; April 05, 2012

*Limitations and Conditions (continued):*

- 4) For aircraft equipped with Williams FJ44-3AP Engines, those engines must be installed under STC ST02371LA.
- 5) For aircraft equipped with Williams FJ44-3AP Engines FAA approved Airplane Flight Manual Supplement, Nextant Aerospace LLC Doc. No. 373-00-0023 Revision IR, dated September 2, 2011, or later FAA approved version, is required on board the modified aircraft.
- 6) Aircraft must have previously qualified for Operations in Reduced Vertical Airspace via:  
RK-1 thru RK-117 and RK-119 thru RK-139, Hawker Beechcraft Service Bulletin No. 34-3431.  
RK-118, RK-140 thru RK-224, Hawker Beechcraft Service Bulletin Nos. 34-3228 and 34-3431.  
RK-225 thru RK-299, Hawker Beechcraft Service Bulletin No. 34-3431.  
RK-300 and after as original equipped from Hawker Beechcraft.
- 7) For aircraft equipped with Universal Avionics Systems Corporation (UASC) TAWS FAA approved Airplane Flight Manual Supplement, Nextant Aerospace LLC Doc. No. 373-00-0036 Revision IR, approved March 28, 2012, or later FAA approved version, is required on board the modified aircraft.
- 8) For aircraft with Collins Proline 21 FMS-6100 LPV Approach enabled FAA approved Airplane Flight Manual Supplement, Nextant Aerospace LLC Doc. No. 373-00-0032 Revision IR, approved March 28, 2012, or later FAA approved version, is required on board the modified aircraft.

*Certification Basis:*

Based on 14 CFR §§21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for the Hawker Beechcraft 400A aircraft is as follows:

- a. The type certification basis for the Hawker Beechcraft 400A aircraft is shown on TCDS A16SW for parts not changed or not affected by this change.
- b. The certification basis for the parts changed or affected by this change since the reference date of application, September 29, 2009, is based on TCDS A16SW and §§ 14 CFR Part 25 as shown on page 4 of 4 of this STC.



United States of America  
 Department of Transportation - Federal Aviation Administration  
**Supplemental Type Certificate**  
**(Continuation Sheet)**

*Date of issuance* October 19, 2009  
 Date Amended: September 26, 2011; April 05, 2012

Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for the baseline Installation of Rockwell Collins Pro Line 21 Electronic Flight Instrument System (EFIS) with Rockwell Collins FMS-6100 modification was determined to be TCDS A16SW and the following later regulations:

Amdt.[24-4] 25.771 (a,c)	Amdt.[25-23] 25.301; 25.303; 25.581; 25.607; 25.611, 25.773 (a)(1)(2)(d)	Amdt.[25-38] 25.1309 (a)(b)(c)(d)(e)(g); 25.1322	Amdt.[25-40] 25.901 (b)(l)(i); 25.1549 (a)(b)(c)	Amdt.[25-41] 25.1321 (a)(b)(c)(e); 25.1331; 25.1333
Amdt.[25-42] 25.1501	Amdt.[25-46] 25.603; 25.605; 25.613; 25.1329 (h)	Amdt.[25-54] 25.1529	Amdt.[25-72] 25.307; 25.571, 25.1307 (c)(e); 25.1351 (a)(l)(d); 25.1381; 25.1521 (a)(c); 25.1543 (b); 25.1581; 25.1583 (a)	Amdt.[25-80] 25.1316
Amdt.[25-86] 25.305	Amdt.[25-90] 25.1303	Amdt.[25-91] 25.561	Amdt.[25-102] 25.981 (n)(b)	Amdt.[25-105] 25.1585 (n)
Amdt.[25-108] 25.1325 (d)	Amdt.[25-109] 25.1323 (a)(f)(g)	Amdt.[25-113] 25.869 (a)(4); 25.1431	Amdt.[25-122] 25.1317 (a)(b)(c)	Amdt.[25-123] 25.1353 (a)(c)

Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for the Collins Proline 21 FMS-6100 with LPV Approach enabled and UASC TAWS was determined to be TCDS A16SW and the following later regulations:

Amdt.[Original] 25.601, 25.605, 25.609, 25.613, 25.1301, 25.1357, 25.1381, 25.1525, 25.1541, 15.1581	Amdt.[24-4] 25.771 (a)	Amdt.[25-23] 25.301; 25.303; 25.305, 25.307, 25.561(c); 25.607; 25.611, 25.1307	Amdt.[25-38] 25.603, 25.1322, 25.1583(e)	Amdt.[25-40] 25.1585 (a)
Amdt.[25-41] 25.1309 (a)(b)(c)(d)(e)(g) 25.1351 (a)(l)	Amdt.[25-42] 25.1501	Amdt.[25-46] 25.777(a)(c)	Amdt.[25-54] 25.1529	Amdt.[25-72] 25.869(a)(1)
Amdt.[25-102] 25.981(n)(b)	Amdt.[25-113] 25.1431(a)	Amdt.[25-123] 25.1353 (a)(c)		

- END -





U.S. Department of  
Transportation  
Federal Aviation  
Administration

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

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

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See 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	Nationality and Registration Mark <b>N493LX</b>		Serial No.	<b>RK 244</b>	
	Make <b>Raytheon Aircraft Company</b>	Model	400A	Series	
2. Owner	Name (As shown on registration certificate) <b>Flight Options .LLC</b>		Address (As shown on registration certificate) Address <b>[REDACTED]</b> City <b>Richmond Heights</b> State, OH Zip <b>44143-1453</b> Country <b>USA</b>		
	3. For FAA Use Only				

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial Number
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	<b>[REDACTED]</b>	(As described in Item 1 above) <b>[REDACTED]</b>	
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement			
A. Agency's Name and Address		B. Kind of Agency	
Name	Nextant Aerospace	<input type="checkbox"/> U.S. Certificated Mechanic	<input type="checkbox"/> Manufacturer
Address	<b>[REDACTED]</b>	<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City	Cleveland	<input checked="" type="checkbox"/> Certificated Repair Station	
Zip	44143-1453	<input type="checkbox"/> Certificated Maintenance Organization	CRS # 25NR667B

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.			
Extended range fuel per 14 CFR Part 43 App. B	<input type="checkbox"/>	Signature/Date of Authorized Individual	<b>[REDACTED]</b> 05/30/2013

7. Approval for Return to Service					
Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport	
	FAA Designee	X Repair Station	Inspection Authorization	Other (Specify)	
Certificate or Designation No. <b>CRS # 25NR667B</b>		Signature/Date of Authorized Individual		<b>[REDACTED]</b> 05/30/2013	



**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.)

N493LX

05/30/2013

Nationality and Registration Mark

Date

Nextant Aerospace Completed STC # ST02371LA

Removed Pratt and Whitney JT15D-5 Series Engines .

Installed the Williams International FJ44-3AP Engines with Full FADEC and Associated Systems in accordance with Nextant Aerospace MDL -NXT-001 Rev IR Dated 08/22/2011 or later FAA approved revisions, and FAA Approved AFM Supplement NXT-1-AFMS Rev IR dated 9/15/2011 of later FAA Approved revisions.

Installed Left Engine Part Number. 111000-202 Serial No. 252757

Installed Right Engine Part Number 111000-202 Serial No. 252758

ICA

AFM Supplement was installed on Aircraft.

Nextant Aerospace Instructions for Continued Airworthiness Document NXT-ICA Rev IR or later FAA accepted revisions are included in the Aircraft Maintenance Records.

Carried out Engine Ground Runs and System OPS checks IAW Ground Test Plan 373-00-0024 Rev F.

End.....

 Additional Sheets Are Attached



United States Of America  
Department of Transportation - Federal Aviation Administration

# Supplemental Type Certificate

Number ST02371LA

This Certificate is issued to

Nextant Aerospace, LLC

[REDACTED]  
Richmond Heights, Ohio 44143

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 25\* of the Federal Aviation Regulations. \*Certification basis is set forth on TCDS A16SW and continuation sheets 3 and 4.

Original Product Type Certificate Number: A16SW

Make: Hawker Beechcraft

Model: 400A

Description of Type Design Change: Replacement of Pratt & Whitney JT15D-5 series engine with Williams International FJ44-3AP engine (TCDS E3GL) with Full Authority Digital Engine Control (FADEC) and associated systems, in accordance with Nextant Aerospace Master Drawing List No.: MDL-NXT-001, Revision IR dated 8/22/2011, or later FAA approved revisions and FAA Approved Airplane Flight Manual Supplement, NXT1-AFMS, Rev IR, dated September 15, 2011 or later FAA approved revisions. Nextant Aerospace, LLC Instructions for Continued Airworthiness document NXT1-ICA, Revision IR, or later FAA accepted revisions must be provided with this STC.

Limitations and Conditions: The installation should not be incorporated in any aircraft unless it is determined that the interrelationship between this installation and any previously approved configuration will not introduce any adverse effect upon the airworthiness of that aircraft. The approval of this modification applies to the above-noted airplane models only. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

(CONTINUED on page 3)

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: March 24, 2008

Date reissued:

Date of issuance: September 27, 2011

Date amended:



Manager, Propulsion Branch  
Los Angeles Aircraft Certification Office  
(Title)

[REDACTED] (Signature)

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



INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Regional Office of the transfer of this Supplemental Type Certificate.

The FAA will reissue the certificate in the name of the transferee and forward it to him.

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### TRANSFER ENDORSEMENT

Transfer the ownership of the Supplemental Type Certificate Number \_\_\_\_\_

to (*Name of transferee*) \_\_\_\_\_

(*Address of transfer*) \_\_\_\_\_  
(Number and street)

\_\_\_\_\_  
(City, State, and Zip code)

from (*Name of grantor*) (*Print or type*) \_\_\_\_\_

(*Address of grantor*) \_\_\_\_\_  
(Number and street)

\_\_\_\_\_  
(City, State, and Zip code)

Extent of Authority (if licensing agreement): \_\_\_\_\_

\_\_\_\_\_

Date of Transfer: \_\_\_\_\_

Signature of grantor (*In ink*): \_\_\_\_\_



United States Of America  
Department of Transportation - Federal Aviation Administration

# Supplemental Type Certificate

(Continuation Sheet)

Number ST02371LA

*Limitations and Conditions (continued)*

- Nextant Aerospace, LLC, "Installation of Rockwell Collins Pro Line 21," Amended STC ST10959SC, dated September 26, 2011 or later FAA approved revisions is required as part of this alteration.
- The new Vmca and Vmcg values are 94 KIAS and 93 KIAS respectively.
- The new engine minimum rated thrust is 3,031 lb at sea level, flat rated to an ambient temperature of 77°F.
- Approved engine fuels are:

<u>Grade</u>	<u>Specification</u>
Jet A	ASTM-D 1655
Jet A-1	ASTM-D 1655

*Certification Basis*

The certification basis for this modification is as follows:

The original certification basis for the Hawker Beechcraft Model 400A airplanes identified on TCDS A16SW, Revision 26, dated March 17, 2010:

Part 25 of the Federal Aviation Regulations effective February 1, 1965, as amended by 25-1 through 25-40, plus §§ 25.1335, 25.1351(d), 25.1353(c)(5), and 25.1447 of Amendment 25-41; §§ 25.29, 25.255, and 25.1353(c)(6) of Amendment 25-42; and §§ 25.361(b) and 25.1329(h) of Amendment 25-46. Part 36 of the Federal Aviation Regulations effective December 1, 1969, as amended by 36-1 through 36-17; SFAR 27 effective February 1, 1974, as amended by 27-1 through 27-5; and Special Conditions No. 25-ANM-32 dated February 22, 1990 (High Altitude Operation at 45,000 feet), and Special Conditions No. 25-ANM-33 dated June 18, 1990 (Lightning and Radio Frequency Energy Protection). (See NOTE 12)

Equivalent Safety Items:

- (1) Out-of-trim characteristics § 25.255
- (2) Pilot compartment view § 25.773(b)(2)
- (3) Passenger compartment door § 25.813(e)
- (4) Emergency exit marking §§ 25.811(d)(1) and 25.811(d)(2)

Application for amended Type Certificate dated February 18, 1988.

Regulation at a later amendments for components and areas affected by the change (Ref. FAA approved Compliance Check List):

**Subpart A - General** : 25.2(25-99)

**Subpart B - Flight**: 25.207(25-121), 25.255(25-42)

**Subpart C - Structure**: 25.571 (25-96)

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



United States Of America  
Department of Transportation - Federal Aviation Administration

# Supplemental Type Certificate

(Continuation Sheet)

Number ST02371LA

*Certification Basis (continued)*

**Subpart D – Design and Construction:** 25.603(25-46), 25.605(25-46), 25.611(25-123), 25.613(25-112), 25.625(25-72), 25.832(25-72), 25.863(25-46), 25.869(25-123),

**Subpart E – Powerplant:** 25.901(25-46), 25.903(25-100), 25.951(25-73), 25.961(25-57), 25.981(25-125), 25.994(25-57), 25.997(25-57), 25.1013(25-72), 25.1019(25-57), 25.1021(25-57), 25.1043(25-42),

25.1045(25-57), 25.1091(25-100), 25.1093(25-72), 25.1103(25-46), 25.1141(25-115), 25.1143(25-57), 25.1163(25-57), 25.1165(25-72), 25.1181(25-115), 25.1183(25-101), 25.1185(25-94), 25.1189(25-57), 25.1195(25-46), 25.1203(25-123), 25.1207(25-46).

**Subpart F – Equipment:** 25.1301(25-123), 25.1305(25-115), 25.1307(25-72), 25.1309(25-123), 25.1316(25-80), 25.1317(25-122), 25.1321(25-41), 25.1331(25-41), 25.1351(25-72), 25.1353(25-123), 25.1357(25-123), 25.1381(25-72), 25.1431(25-113), 25.1438(25-41),

**Subpart G – Operating Limitations and Information:** 25.1501(25-42), 25.1521(25-72), 25.1527(25-105), 25.1529(25-54), 25.1543(25-72), 25.1549(25-40), 25.1551(25-72), 25.1557(25-72), 25.1581(25-72), 25.1583(25-105).

**Subpart H - Electrical Wiring interconnection Systems (EWIS):** 25.1701(25-123), 25.1703(25-123), 25.1705(25-123), 25.1707(25-123), 25.1709(25-123), 25.1711(25-123), 25.1713(25-123), 25.1715(25-123), 25.1717(25-123), 25.1719(25-123), 25.1721(25-123), 25.1723(25-123), 25.1725(25-123), 25.1727(25-123), 25.1729(25-123), 25.1731(25-123), 25.1733(25-123).

**14 CFR Part 34 (34-3):** 34.11

**14 CFR Part 36 (36-28):** 36.1--36.7, 36.101--36.105, 36.1501, 36.1581.

**The following Nextant Aerospace Continued Airworthiness Supplements are applicable to airplanes modified in accordance with this STC:**

- Master Minimum Equipment List document No. MMEL Rev. 8, dated 02/21/2011 or later FAA approved revisions.
- EWIS (Electrical Wiring Interconnection Systems) Inspection Procedure/Report No. NXT1-EA-007 Rev A dated 8/24/11 or later FAA approved revisions.

-END-

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





US Department  
of Transportation  
Federal Aviation  
Administration

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

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

Electronic Tracking Number

For FAA Use Only

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

1. Aircraft	Nationality and Registration Mark <b>USA, N493LX</b>	Serial No. <b>RK-244</b>
	Make <b>RAYTHEON AIRCRAFT COMPANY</b>	Model <b>400A</b>
	ICAO AIRCRAFT ADDRESS CODE: <b>51416115</b>	Series <b>Not Applicable</b>
2. Owner	Name (As shown on registration certificate) <b>FLIGHT OPTIONS LLC</b> <b>FLIGHT OPTIONS LLC</b>	Address (As shown on registration certificate) Address <b>[REDACTED]</b>
		City <b>RICHMOND HEIGHTS</b> State <b>OHIO</b>
		Zip <b>44143-1453</b>

**3. For FAA Use Only**

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

**6. Conformity Statement**

A. Agency's Name and Address		B. Kind of Agency		
Name <b>Flight Options LLC</b>	Address <b>[REDACTED]</b>	U. S. Certificated Mechanic	Manufacturer	
City <b>Binghamton</b>	State <b>NY</b>	Foreign Certificated Mechanic	C. Certificate No.	
Zip <b>13904</b>	USA	Certificated Repair Station	<b>DJFA206D</b>	
		<input checked="" type="checkbox"/> Certificated Maintenance Organization		

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

Extended range fuel per 14 CFR Part 43 App. B	<input type="checkbox"/>	Signature/Date of <b>[REDACTED]</b>
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**7. Approval for Return to Service**

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

BY	FAA Fit. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/> Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	Inspection Authorization	Other (Specify) <b>[REDACTED]</b>
Certificate or Designation No. <b>DJFA 206D</b>		Signature/Date of Author	<b>[REDACTED]</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.)*

USA N493LX

4/3/2012

Nationality and Registration Mark

Date

Removed EFB Mount Assembly that was previously installed under Engineering Order M25-10/05-011.

The aircraft weight and balance has been updated.

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS: None

-----END-----

Additional Sheets Are Attached

FAA Form 337 (10-06)



EFTA00012031



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

1 NATIONALITY AND REGISTRATION MARKS  N493LX	2 MANUFACTURER AND MODEL  Raytheon Aircraft Co. 400A	3 AIRCRAFT SERIAL NUMBER  RK-244	4 CATEGORY  Transport
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5 AUTHORITY AND BASIS FOR ISSUANCE

This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein.

Exceptions:

None

*Copy*

6 TERMS AND CONDITIONS

Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 21, 43, and 81 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.

DATE OF ISSUANCE  R 10/01/1999		DESIGNATION NUMBER  AEA-FSDO-23
--------------------------------------	--	---------------------------------------

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 (3-08)

EFTA00012033

11/28/13

**ENGINEERING ORDER**

Aircraft Type	Aircraft Number	Serial Number	Station
Engineering Order Number M25-10/05-011	Revision Number Original	Date 10-19-2005	Page 1 of: 1
<b>E N G I N E E R I N G   O R D E R   T I T L E</b>			
Electronic Flight Bag Mount Installation – Beechjet 400 Fleet			
Effectivity:	Aircraft serial numbers RK-123 and after		
Description:	To install a fabricated mount assembly near the co-pilots map light rheostat to hold the electronic flight bag computer		
Accompanying Documents:	Work Compliance Instructions Form, DER approved Engineering Directive EDW01-5, FAA forms 337 and 8110-3,		
Reason:	For the effective aircraft to obtain a paperless cockpit environment		
Prepared By Keith Gawsyzawski	Signature	Date 10-19-2005	
Quality Assurance		Date	
Robert Beaumont		10-21-05	
Approved By Todd Hattaway		Date 10/21/05	
<b>Regulatory Compliance</b>			
<input checked="" type="checkbox"/> Major Repair	<input type="checkbox"/> Minor Repair	FAA Approval	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Weight & Balance Affected <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Weight 4 lb increase	Arm 108	
Parts Required Yes, FG3500-400N, EFB mount assembly, 4 each AN3-5A bolts, 4 each NAS1149F0363P washers, 1 each -11 placard	Equipment List Update <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Drawings Required Yes, 1175TA, rev A, 5245D, rev B, 5244FC, rev B (included in the Engineering Directive)	RVSM Status Affected <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Publications Affected None	AD List Affected <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Estimated Cost \$176.00	Estimated Labor Hours 4.0 hours		
Distribution <input checked="" type="checkbox"/> Maintenance Planning <input checked="" type="checkbox"/> Maintenance <input checked="" type="checkbox"/> Quality Assurance <input checked="" type="checkbox"/> Operations <input type="checkbox"/> Procurement <input type="checkbox"/> Aircraft Manufacturer <input checked="" type="checkbox"/> Federal Aviation Administration	Remarks / References The planning department shall add this EO to a scheduled work order whenever an effective aircraft is located at one of the Raytheon dedicated maintenance facilities and adequate down time permits.		
Priority Code (check all that apply)			
<input type="checkbox"/> Urgent <input checked="" type="checkbox"/> Mandatory <input type="checkbox"/> Attrition			





## WORK COMPLIANCE INSTRUCTIONS

Page:	Aircraft Number:	Station:	Work Order #	Effectivity
1 of 2				RK-123 and after

Engineering Order Number:  
M25-10/05-011

**OR**

Fleet Campaign Directive Number:

### T I T L E

#### Electronic Flight Bag (EFB) Mount Installation Procedures For Flight Options, LLC., Beechjet 400A's

Item	Work Description	Mechanic	Inspected
01	Document the maintenance action on a Flight Options maintenance transaction report form, FO-501 with the following statement in the discrepancy side: "Accomplishment of Flight Options EO M25-10/05-011 Installation of the Electronic Flight Bag, FG3500 mount assembly is due".		
02	Remove electrical power from aircraft and disconnect main aircraft battery.		
03	Loosen the upper glare shield and right side cover (which contains the reading light and air-cell phone assemblies) by removing the mounting screws and separating the Velcro strips.		
04	Remove the three screws and 90 degree cover panel form the aft edge of the right side cover panel and discard.		
05	With the glare shield and right side cover disconnected, locate the pre-existing fastener holes located on the shelf just below the copilots windshield and temporarily install the Electronic Flight Bag (EFB) mount assembly using the four AN3-5A bolts and NAS1149F0363P plain washers (included in the kit) to the pre-existing fastener holes. Snug but do not tighten bolts at this time.		
06	Adjust the position of the EFB mount assembly to provide sufficient clearance between the existing ashtray and the EFB mount thumbscrew.		
07	When proper clearance is achieved in step five, (thumbscrew does not touch the ashtray when rotated), tighten mounting bolts to 22 to 28 inch pounds (AMM Chap 20).		
08	Reinstall the right side panel. Trim the aft edge of the panel as necessary to provide clearance between the panel and the 1175TA bracket, as identified in engineering Directive EDW01-5, figure 2, on page 3. Trim leather covering as necessary and secure with adhesive (contact cement or equivalent).		
09	Verify condition of Velcro on the upper glareshield and right side panel for proper security. Secure as necessary.		
10	Install the EFB computer (Fujitsu) into the holder bracket.		
11	With the EFB mount installed, loosen the thumbscrew knob on the mount assembly $\frac{1}{2}$ to one full turn maximum (do not allow the "Hold-It arm to separate from the mechanical stop pin in the drawing number 1175 mount bracket).		
12	With the EFB mount assembly arm loose; verify the co-pilots control column and wheel does not come in contact with the EFB mount assembly using the following procedure: Perform this task by moving the control column full travel forward and aft and rotating the control wheel full left and right while also rotating the EFB mount assembly in all possible configurations. Verify that the EFB mount assembly does not make contact with any part of the control yoke and wheel. If contact <u>does not</u> occur, proceed to step 17 and N/A and initial blocks 13 through 16.		

Form Completed By:	Date:	Log Page:





## WORK COMPLIANCE INSTRUCTIONS

Page:	Aircraft Number:	Station:	Work Order #	Effectivity
2 of 2				RK-123 and after

Engineering Order Number:  
M25-10/05-011

OR

Fleet Campaign Directive Number:

## T I T L E

## Electronic Flight Bag (EFB) Mount Installation Procedures For Flight Options, LLC., Beechjet 400A's

Item	Work Description	Mechanic	Inspected
13	If contact occurs, remove the mount assembly "Hold-It" arm, identified in figure 2 of engineering directive EDW01-5, page 3, by completely removing the thumbscrew. Take note not to lose the wedge shaped bushing located in the eye of the "Hold-It" arm which supplies the locking feature of the mount assembly.		
14	Locate the small Allen type set screws and adjust as necessary to move the arm towards the more vertical position. Make $\frac{1}{4}$ turn adjustments at a time.		
15	Reinstall the "Hold-It" arm assembly, taking note to install the wedge bushing with the tapered end first into the eye of the arm assembly and tighten the thumbscrew. Caution: Make sure the mechanical stop pin located on the drawing number 1175 mount bracket fits within the machined slot on the inside part of the eye portion of the "Hold-It" arm assembly.		
16	Repeat steps 10 through 14 until proper clearance between the control yoke and the EFB is achieved.		
17	After the final adjustments are made to the Allen type set adjustment screws, apply a small amount of Loctite 242 to the screw threads to secure from loosening.		
18	Resecure the upper glareshield to the right side panel by reinstalling the mounting screws and resecuring the Velcro strips.		
19	Attach the power plug to the EFB computer.		
20	Install the fabricated "-11" placard as stated in the engineering directive EDW01-5, page 2, to the right cockpit side wall panel just below the side window.		
21	Reconnect the main aircraft battery. Secure as necessary.		
22	Complete the corrective action side of the Flight Options aircraft maintenance transaction form FO-501 with the following statement: "Complied with Flight Options EO M25-10/05-011, installation of the Electronic Flight Bag assembly FG3500-400N in accordance with DER approved Engineering Directive EDW01-5, see FAA form 8110-3 dated 8-12-05 and Flight Options Work Compliance Instructions".		
23	Complete the accompanying Engineering Directive checklist on page 2 and the previously FAA field approved form 337 by completing blocks 6 and 7 in its entirety. When completed, forward one copy of the 337 and the complete Engineering Directive package and Form 8110-3 to the Quality Assurance Department in Binghamton, New York and one copy of the FAA form 337 and 8110-3 to the local Flight Standards District Office via US mail within two business days after completion of the installation.		
	—END—		

Form Completed By:

Date:

Log Page:





US Department  
of Transportation  
Federal Aviation  
Administration

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

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

Electronic Tracking Number

For FAA Use Only

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

1. Aircraft	Nationality and Registration Mark <b>N493LX</b>	Serial No. <b>RK-244</b>		
	Make <b>HAWKER BEECHCRAFT CORP</b>	Model <b>BEECHJET</b>	Series <b>400A</b>	
2. Owner	Name (As shown on registration certificate) FLIGHT OPTIONS LLC SHMITKA AIR INC SOUTHEASTERN MILLS INC ET AL	Address (As shown on registration certificate)		
	Address			
	City <b>Richmond Heights</b>	State <b>OH</b>	Zip <b>44142-1453</b>	Country <b>USA</b>

**3. For FAA Use Only**

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

**6. Conformity Statement**

A. Agency's Name and Address		B. Kind of Agency		
Name	Flight Options, LLC	U. S. Certificated Mechanic	Manufacturer	
Address	27 Link Drive Suite B	Foreign Certificated Mechanic	C. Certificate No.	
City	Binghamton	Certificated Repair Station	DJFA206D	
Zip	13904	Manufacturer		

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

Extended range fuel  
per 14 CFR Part 43  
App. B

**7. Approval for Return to Service**

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

BY	FAA Fit. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/>	Maintenance Organization		Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station		Inspection Authorization	Other (Specify)	<b>FLIGHT OPTIONS 135 AIR CARRIER CERTIFICATE</b>
Certificate or Designation No. DJFA 206D						

**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.)*

USA N493LX SN-244

4/11/2011

Nationality and Registration Mark

Date

REPAIRED LEFT FUSELAGE SKIN ABOVE PYLON IAW US TECHNICAL EO6110 227227. 8110-3  
DATED MARCH 27, 2011. (WORK ORDER # 227277 SQ-208)

WEIGHT AND BALANCE NEGLIGIBLE

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS: FOLLOW NORMAL MAINTENANCE  
PRACTICES FOR THE LT AFT FUSELAGE SKIN ASSEMBLY REPAIR AS CALLED OUT IN THE  
BEECHJET 400A MAINTENANCE MANUAL

XX



US Department  
of Transportation  
Federal Aviation  
Administration

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

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

Electronic Tracking Number

For FAA Use Only

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

<b>1. Aircraft</b>	Nationality and Registration Mark <b>N493LX</b>	Serial No. <b>RK-244</b>	
	Make <b>HAWKER BEECHCRAFT CORP</b>	Model <b>BEECHJET</b>	Series <b>400A</b>
<b>2. Owner</b>	Name (As shown on registration certificate) <b>FLIGHT OPTIONS LLC SHMITKA AIR INC SOUTHEASTERN MILLS INC ET AL.</b>	Address (As shown on registration certificate) Address [REDACTED]	
		City <b>Richmond Heights</b>	State <b>OH</b>
Zip <b>44142-1453</b> Country USA			

**3. For FAA Use Only**

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

**6. Conformity Statement**

<b>A. Agency's Name and Address</b>		<b>B. Kind of Agency</b>		
Name	Flight Options, LLC	U. S. Certificated Mechanic	Manufacturer	
Address	27 Link Drive Suite B	Foreign Certificated Mechanic	C. Certificate No.	
City	Binghamton	Certificated Repair Station	DJFA206D	
Zip	13904	Manufacturer	Certificated Maintenance Organization	

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

Extended range fuel  
per 14 CFR Part 43  
App. B

**7. Approval for Return to Service**

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

<b>BY</b>	FAA Ft. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/>	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee			Repair Station	
Certificate or Designation No. DJFA 206D				Other (Specify) <b>FLIGHT OPTIONS 135 AIR CARRIER CERTIFICATE</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.)

USA N493LX SN-244

3/8/2011

Nationality and Registration Mark

Date

REPAIRED LEFT ELEVATOR IAW US TECHNICAL EO5770 226648. 8110-3 DATED APRIL 19  
2010 (WORK ORDER # 227277 SQ-97)

WEIGHT AND BALANCE NEGLIGIBLE

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS: FOLLOW NORMAL MAINTENANCE  
PRACTICES FOR THE ELEVATOR AS CALLED OUT IN THE BEECHJET 400A  
MAINTENANCE MANUAL

XX





US Department  
of Transportation  
Federal Aviation  
Administration

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

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

Electronic Tracking Number

For FAA Use Only

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

1. Aircraft	Nationality and Registration Mark <b>N493LX</b>	Serial No. <b>RK-244</b>
	Make <b>HAWKER BEECHCRAFT CORP</b>	Model <b>BEECHJET</b>
2. Owner	Name (As shown on registration certificate) SHMITKA AIR INC SOUTHEASTERN MILLS INC ASCENT II LLC PRIME TIME ASSOCIATES LLC	Address (As shown on registration certificate) Address _____ City <b>Richmond Heights</b> State <b>OH</b> Zip <b>44142-1453</b> Country <b>USA</b>

**3. For FAA Use Only**

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

**6. Conformity Statement**

A. Agency's Name and Address		B. Kind of Agency		
Name <b>Flight Options, LLC</b>	Address <b>27 Link Drive Suite B</b>	U. S. Certificated Mechanic	Manufacturer	
City <b>Binghamton</b>	State <b>NY</b>	Foreign Certificated Mechanic	C. Certificate No.	
Zip <b>13904</b>	Country <b>USA</b>	Certificated Repair Station	<b>DJFA206D</b>	
		<input checked="" type="checkbox"/> Certified Maintenance Organization		

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

Extended range fuel per 14 CFR Part 43 App. B	<input type="checkbox"/>	Signature/Date of Authorized Individual <b>10-19-2010</b>
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**7. Approval for Return to Service**

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

BY	FAA Fit. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/>	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station		Inspection Authorization	Other (Specify) <b>FLIGHT OPTIONS 135 AIR CARRIER CERTIFICATE</b>

Certificate or Designation No. <b>DJFA 206D</b>	Signature/Date of Authorized Individual <b>10-19-2010</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.)*

USA N493LX SN-244

10/19/2010

Nationality and Registration Mark

Date

SUBSTITUTED FASTENERS IN H-STAB LOWER SKIN PER EO5938 227277IFAD FROM US  
TECHNICAL 8110-3 DATED 10/18/2010

WEIGHT AND BALANCE NEGLIGIBLE

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS: NORMAL MAINTENANCE PRACTICES  
FOR THE HORIZONTAL STABILIZER ASSEMBLY AS CALLED OUT IN THE BEECHJET 400A  
MAINTENANCE MANUAL

XX





US Department  
of Transportation  
Federal Aviation  
Administration

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

Form Approved  
OMB No. 2120-0020  
2/26/2011

Electronic Tracking Number

For FAA Use Only

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

1. Aircraft	Nationality and Registration Mark USA N493LX	Serial No. RK - 244
	Make RAYTHEON AIRCRAFT COMPANY	Model BEECHJET
	Series 400A	
2. Owner	Name (As shown on registration certificate) AIR GHISLAINE INC SOUTHEASTERN MILLS INC ASCENT II LLC	Address (As shown on registration certificate) Address _____ City RICHMOND HEIGHTS State OHIO Zip 44143-1453 Country USA

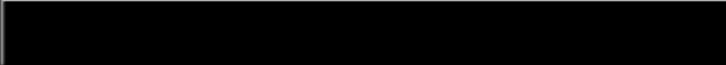
**3. For FAA Use Only**

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

**6. Conformity Statement**

A. Agency's Name and Address		B. Kind of Agency		
Name FLIGHT OPTIONS LLC	Address 27 LINK DRIVE SUITE B	U. S. Certificated Mechanic	Manufacturer	
City BINGHAMTON	State NY	Foreign Certificated Mechanic	C. Certificate No.	
Zip 13904	Country USA	Certificated Repair Station		
		✓ Certificated Maintenance Organization	DJFA 206 D	

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

Extended range fuel per 14 CFR Part 43 App. B	Signature/Date of Authorized Individual   
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**7. Approval for Return to Service**

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

BY	FAA Fit. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/> Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	Inspection Authorization	Other (Specify)
Certificate or Designation No. DJFA 206 D		Signature/Date of Authorized Individual   		



## NOTICE

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

### 8. Description of Work Accomplished

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

USA N493LX

FEB 04 2010

Nationality and Registration Mark

Date

ACCOMPLISHED INSTALLATION OF MAIN LANDING GEAR HEAT SHIELD COVER KIT 128-1002-0001 SERIAL NUMBER 137 AS DESCRIBED IN ENGINEERING ORDER EO M32-10/08-023.

ALL WORK ACCOMPLISHED I/A/W HBC MAIN LANDING GEAR HEAT SHIELD COVER KIT 128-1002-0001 SERIAL NUMBER 137 AND ENGINEERING ORDER M32-10/08-023 REV. A DATED 11-13-08.

WEIGHT AND BALANCE NEGLIGIBLE.

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS: INSPECT THE HEAT SHIELD BLANKETS AND COVERS I/A/W FLIGHT OPTIONS INSPECTION PROGRAM OR THE MANUFACTURES INSPECTION PROGRAM AS APPROPRIATE.

END

Additional Sheets Are Attached



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

1 NATIONALITY AND REGISTRATION MARKS  N493TA	2 MANUFACTURER AND MODEL  Raytheon Aircraft Co. 400A	3 AIRCRAFT SERIAL NUMBER  RK-244	4 CATEGORY  Transport
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5 AUTHORITY AND BASIS FOR ISSUANCE

This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein. Exceptions:

None

6 TERMS AND CONDITIONS

Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.

DATE OF ISSUANCE  10/01/1999	FAA REPRESENTATIVE  [REDACTED]	DESIGNATION NUMBER  ACE-FSDO-20
------------------------------------	--------------------------------------	---------------------------------------

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 (3-82)

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

1. NATIONALITY AND REGISTRATION MARKS  N793TA	2. MANUFACTURER AND MODEL  RAYTHEON AIRCRAFT COMPANY 400A	3. AIRCRAFT SERIAL NUMBER  RK-244	4. CATEGORY  TRANSPORT
--	--	--	------------------------------

5. AUTHORITY AND BASIS FOR ISSUANCE

This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein. Exceptions:

NONE

6 TERMS AND CONDITIONS

Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.

DATE OF ISSUANCE  K-10/01/99	FAA REPRESENTATIVE  [REDACTED]	DESIGNATION NUMBER  ACE-FSDO-07
------------------------------------	--------------------------------------	---------------------------------------

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.

Form 8100-2 (8-82)

\* U.S. G.P.O. 1996 669-038

EFTA00012051



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

1 NATIONALITY AND REGISTRATION MARKS  N793TA	2 MANUFACTURER AND MODEL  RAYTHEON AIRCRAFT COMPANY 400A	3 AIRCRAFT SERIAL NUMBER  RK-244	4 CATEGORY  TRANSPORT
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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 therfor, to be fit condition for safe operation, and had been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein.

Exceptions: **NONE**

6. TERMS AND CONDITIONS

Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, 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  R-10/01/99	FAA REPRESENTATIVE  [Signature]	DESIGNATION NUMBER  ACE-FSDO-07
------------------------------------	---------------------------------------	---------------------------------------

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.

# U.S. G.P.O.: 1998 689-038

Form 4100-1 (5-81)

EFTA00012053





US Department  
of  
Federal Aviation  
Administration

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

Form Approved  
OMB No. 2120-0020

*(Handwritten)*  
For FAA Use Only

Office Identification  
AEA-FSDO-23 *JL*

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

1. Aircraft	Make <b>Beechcraft</b>	Model <b>400A</b>
	Serial No. <b>RK-244</b>	Nationality and Registration Mark <b>N793TA</b>
2. Owner	Name (As shown on registration certificate) <b>NORTH CHANNEL LLC ET-AL</b>	Address (As shown on registration certificate) <b>C/O Flight Options LLC [REDACTED] Richmond Heights OH 44143-1494</b>

**3. For FAA Use Only**

**THE TECHNICAL DATA IDENTIFIED HEREIN HAS BEEN FOUND TO COMPLY WITH APPLICABLE AIRWORTHINESS REQUIREMENTS AND IS HEREBY APPROVED FOR USE ONLY ON THE ABOVE-DESCRIBED AIRCRAFT, SUBJECT TO CONFORMITY INSPECTION BY A PERSON IN 14 CFR PART 43.7.**

APPROVING INSPECTOR  
*[Handwritten Signature]*  
DATE **30 JUN 2004** AEA FSDO 23

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

**6. Conformity Statement**

A. Agency's Name and Address  C/O Flight Options LLC [REDACTED] Richmond Heights, OH 44143	B. Kind of Agency  <input checked="" type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No.  <i>AP 278825845</i>
--	--	---

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

Date <i>12-22-04</i>	Signature of Authorized Individual <i>[Handwritten Signature]</i>
-------------------------	--

**7. Approval for Return To Service**

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

BY	FAA Fit. Standards Inspector	Manufacturer	Inspection Authorization	Other (Specify) <i>Any Carrier Certificate</i>
	FAA Designee	Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection <i>12/28/04</i>	Certificate or Designation No. <i>DSFA206D</i>	Signature of Authorized Individual <i>[REDACTED]</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 the following equipment in Beechcraft 400A S/N RK-244:

Equipment	Install Manual	Maintenance Manual	Pilot's Guide
TAWS 8000 (Class B)	009-18001-001 Current Revision	N/A	009-18000-001 Current Revision

Installed Goodrich Avionics Systems Landmark TAWS8000 system (TSO-C151a Class B) using Flight Options LLC electrical drawing 400-3446-20-01 and applicable manufacturers installation manuals listed above.

This installation includes the optional Terrain Display function.

FAA Approved Flight Manual Supplement 400-3446-20 must be on board the aircraft when the Class B TAWS 8000 system is in use.

The TAWS 8000 system has been previously approved for multiple Beechjet aircraft under STC ST01881CH-D, with the Terrain Display function enabled. This installation has been inspected and found to conform to the operational and technical characteristics of STC ST01881CH-D with minor deviations in location of switching relays and wiring interface points as depicted on Flight Options LLC drawing 400-3446-20-01. Similarity to STC ST01881CH-D is the basis for this request for field approval.

Using the respective manufacturer's instructions for post-installation ground tests, performed operational checks on all systems. The systems performed to manufacturer's specifications and no interference to existing aircraft systems was noted.

In addition to specific instructions contained in the manufacturer's installation manual(s) noted above, all physical mounting considerations were made with reference to AC 43.13-2A, Chapter 1, Chapter 2, Chapter 3, and Chapter 11 as they apply to this installation. Regarding attachment to additional structure all alterations were inspected to comply with the aircraft manufacturer's structural repair and alteration specifications.

In addition to specific instructions contained in the manufacturer's installation manual(s) noted above, wire bundles were fabricated using MIL-SPEC, Tefzel wire, that meets the acceptability requirements of AC43.13-1B, Chapter 11, Section 7, Paragraph 11-85 (a) and/or (b), paragraph 11-88, and paragraph 11-89. All wiring was marked in accordance with AC43.13-1B, Chapter 11, Section 16, Para. 11-206, 11-207, 11-208 (a) and/or (b) and 11-210 (a) and (b). Individual wires were formed into bundles by lacing and tying using the techniques described in AC43.13-1B, Chapter 11, Section 12, paragraph 11-158 (a) and (b). Cables were routed and secured in the aircraft using AC43.13-1B, Chapter 11, Section 8, Para. 11-96, (a) through (gg) as a guide.

An electrical load analysis was performed per AC43.13-1B Chapter 11 Section 3 Paragraph 36. The maximum probable continuous electrical load does not exceed 80% of the generator(s) output capacity. All compasses aboard this aircraft were checked for accuracy on completion of this installation. The aircraft equipment list and weight and balance were updated.

Instructions for continued airworthiness (ICA) for this aircraft alteration and interfacing components are as follows:

- (1) Introduction to the aircraft altered is explained above.
- (2) Description of the major alteration is explained above.
- (3) Operation information is described in the documents listed above for each particular product.
- (4) Servicing, (8) Diagrams and access plates, (9) Special inspection requirements, (10) Application of protective treatments, (11) Data, (12) List of Special Tools, (14) Recommended Overhaul Periods, and (15) Airworthiness limitation section are not applicable.
- (5) Maintenance, (6) Troubleshooting information, (7) Removal and Replacement, and (13) for commuter category aircraft of the products listed, will be IAW the appropriate and current manufacturers installation manuals.
- (16) Revision will be in accordance with the manufacturers' maintenance manuals and submitted to the local FSDO.

Antennas and other parts and materials installed such as wiring, circuit breakers, switches, annunciators, clamps, doublers, shelves, and racks will be inspected in conjunction with the Raytheon Beechjet 400A Phase C inspection program, for condition, security of attachment, evidence of damage, and normal operation IAW FAR 25.1529 and/or applicable manufacturers service instructions.

Additional Sheets Are Attached

JAN 03 2005



US Department  
of  
Federal Aviation  
Administration

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

Form Approved  
OMB No. 2120-0020

**For FAA Use Only**

Office Identification  
ACA-FS 00-23

JUL

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

1. Aircraft	Make <b>Beechcraft</b>	Model <b>400A</b>
	Serial No. <b>RK-244</b>	Nationality and Registration Mark <b>N793TA</b>
2. Owner	Name (As shown on registration certificate) <b>NORTH CHANNEL LLC ET-AL</b>	Address (As shown on registration certificate) <b>C/O Flight Options LLC [REDACTED] Richmond Heights OH 44143-1494</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)				<input checked="" type="checkbox"/>
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

**6. Conformity Statement**

A. Agency's Name and Address		B. Kind of Agency	C. Certificate No.
Lynn H. Huyen C/O Flight Options LLC [REDACTED] Richmond Heights OH 44143-1494		<input checked="" type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	A&P 278825845

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

Date <i>12-22-04</i>	Signature of Authorized Individual <i>[Signature]</i>
-------------------------	--

**7. Approval for Return To Service**

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

BY	FAA Fit. Standards Inspector	Manufacturer	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station	Person Approved by Transport Canada Airworthiness Group	<i>Air Carrier Certificate</i>
Date of Approval or Rejection <i>12/28/04</i>	Certificate or Designation No. <i>DTFA2068</i>	S		

## 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 existing MK-VI GPWS system in conjunction with installation of new TAWS (EGPWS) system reference FAA form 337 dated 12-22-04.

Aircraft weight and balance and equipment list data have been revised.

-----END-----

Additional Sheets Are Attached



US Department of  
Federal Aviation  
Administration

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

Form Approved  
OMB No. 2120-0020

For FAA Use Only

Office

6625 TBL

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

1. Aircraft	Make BEECHJET	Model 400A
	Serial No. RK244	Nationality and Registration Mark N793TA
2. Owner	Name (As shown on registration certificate) FLIGHTOPTIONS	Address (As shown on registration certificate) RICHMOND HTS., OHIO 44143

3. For FAA Use Only

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

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
CLASSIC INTERIOR COMPLETIONS INC. CLEVELAND, OHIO 44143	<input type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input checked="" type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	R4GR031Y

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  
12-10-2004

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	Manufacturer	Inspection Authorization	Other (Specify)
	FAA Designee		Person Approved by Transport	
Date of Approval or Rejection 12-10-2004	Certificate or Designation No. R4GR031Y	Signature of Authorized Individual		RECEIVED DEC 16 2004 CIE-GL25

## 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.)

AIRCRAFT: BEECHJET 400A N793TA RK-244

FABRICATED AND INSTALLED THE FOLLOWING USING APPROVED DER DRAWINGS SEE FAA FORM 8110-3 DATED 12-08-2004

- 1) R/H Galley
- 2)
  - a) Assembly drawing #36G-200A006
  - b) Installation drawing #36G-200F006

There are no additional inspections required for continued airworthiness other than those prescribed by the aircraft manufacturer during regular inspections.

END

Additional Sheets Are Attached



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

Form Approved  
 OMB No. 2120-0020

For FAA Use Only

Offic

**AEAFSDO**

JL

23

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

1. Aircraft	Make <b>RAYTHEON</b>	Model <b>400A</b>
	Serial No. <b>RK-244</b>	Nationality and Registration Mark <b>USA N793TA</b>
2. Owner	Name (As shown on registration certificate) <b>SAMAIR INC ET-AL</b>	Address (As shown on registration certificate) <b>[REDACTED] WICHITA, KS 67207</b>

**3. For FAA Use Only**

THE TECHNICAL DATA IDENTIFIED HEREIN HAS BEEN FOUND TO COMPLY WITH APPLICABLE AIRWORTHINESS REQUIREMENTS AND IS HEREBY APPROVED FOR USE ONLY ON THE SUBJECT

TO CONFORMITY INSPECTION BY A PERSON IN 14 CFR PART 43.7.  
APPROVING INSPECTOR

DATE 12/25/03 APPROVING INSPECTOR  
AEAFSDO 23

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

**6. Conformity Statement**

A. Agency's Name and Address <b>STEPHEN J. MAIDEN C/O FLIGHT OPTIONS LLC [REDACTED] RICHMOND HEIGHTS, OH 44143</b>	B. Kind of Agency <input checked="" type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No. <b>A 297605039</b>
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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>JUNE 10, 2003</b>	<b>[REDACTED]</b>	
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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) <b>OPTIONS FLIGHT SUPPORT, INC., d/b/a FLIGHT OPTIONS</b>
	FAA Designee	Repair Station	Person Approved by Transport Canada Airworthiness Group	

Date of Approval or Rejection <b>JUNE 10, 2003</b>	Certificate or Designation No. <b>DJFA206D</b>	Signature of Authorized Individual <b>[REDACTED]</b>	<b>KEITH GAWSYSZAWSKI</b>
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## NOTICE

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

### 8. Description of Work Accomplished

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

INSTALLED ROCKWELL COLLINS, INC., SUPPLEMENTAL TYPE CERTIFICATE #ST00881WI-D, MODIFICATION OF COLLINS TCAS II SYSTEM INSTALLATION WITH COLLINS TTR-920 CHANGE 6.04a RECEIVER TRANSMITTER TO A COLLINS TCAS II SYSTEM INSTALLATION WITH COLLINS TTR-920 CHANGE 7 TCAS II RECEIVER TRANSMITTER IN ACCORDANCE WITH COLLINS INSTALLATION INSTRUCTIONS AS LISTED ON AML # ST00881WI-D.

AIRCRAFT FLIGHT MANUAL SUPPLEMENT INSERTED INTO AIRCRAFT FLIGHT MANUAL.

NO CHANGE TO WEIGHT AND BALANCE.

END

Additional Sheets Are Attached



US Department  
of  
Federal Aviation  
Administration

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

Form Approved  
OMB No. 2120-0020

For FAA Use Only

Office Identification *36*

**AFA-FSDO**

**23**

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

1. Aircraft	Make <b>RAYTHEON</b>	Model <b>400A</b>
	Serial No. <b>RK-244</b>	Nationality and Registration Mark <b>USA N793TA</b>
2. Owner	Name (As shown on registration certificate) <b>SAMAIR INC ET-AL</b>	Address (As shown on registration certificate) <b>[REDACTED] WICHITA, KS 67207</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)			<input checked="" type="checkbox"/>	
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

**6. Conformity Statement**

A. Agency's Name and Address		B. Kind of Agency		C. Certificate No.	
Stephen J. Maiden <b>C/O FLIGHT OPTIONS LLC</b> <b>[REDACTED]</b> <b>RICHMOND HEIGHTS, OH 44143</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		A297605039	

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>10 June, 03</b>	<b>[REDACTED]</b>
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**7. Approval for Return to Service**

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

BY	FAA Fit. Standards Inspector	Manufacturer	Inspection Authorization	Other (Specify) <b>FLIGHT OPTIONS LLC AIR AGENCY CERTIFICATE</b>
	FAA Designee	Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection <b>JUNE 10, 2003</b>		Certificate or Designation No. <b>DJFA206D</b>		<b>[REDACTED]</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.

0023-ABA

### 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 ROCKWELL COLLINS, INC., SUPPLEMENTAL TYPE CERTIFICATE #ST00881WI-D, MODIFICATION OF COLLINS TCAS II SYSTEM INSTALLATION WITH COLLINS TTR-920 CHANGE 6.04a RECEIVER TRANSMITTER TO A COLLINS TCAS II SYSTEM INSTALLATION WITH COLLINS TTR-920 CHANGE 7 TCAS II RECEIVER TRANSMITTER IN ACCORDANCE WITH COLLINS INSTALLATION INSTRUCTIONS AS LISTED ON AML # ST00881WI-D.

AIRCRAFT FLIGHT MANUAL SUPPLEMENT INSERTED INTO AIRCRAFT FLIGHT MANUAL.

NO CHANGE TO WEIGHT AND BALANCE.

END

Additional Sheets Are Attached

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

*Number* ST00881WI-D

*This certificate, issued to* Rockwell Collins, Inc.  
400 Collins Road NE, MS 164-100  
Cedar Rapids, IA 52498

*certifies that the change in the type design for the following product with the limitations and conditions  
therefor as specified herein meets the airworthiness requirements of Part 25 of the  
Regulations.*

*Original Product - Type Certificate Number:* \* \*See attached FAA Approved Model List (AML)  
*Make:* \* No. ST00881WI-D for list of approved airplane models  
*Model:* \* and applicable airworthiness regulations.

*Description of Type Design Change:* Modification of Collins TCAS II or TCAS 94 (TCAS II) system installation with Collins TTR-920 Change 6.04a Receiver Transmitter to a Collins TCAS II or TCAS 94 (TCAS II) system installation with Collins TTR-920 or Collins TTR-921 or Collins TTR-4000 Change 7.0 TCAS II Receiver Transmitter and optional TPR-901 in accordance with Collins Installation Instructions as listed on AML No. ST00881WI-D, Revision -, or later FAA approved revisions.

*Limitations and Conditions:* (1) Approval of this change in type design applies to the above model aircraft only. (2) Compatibility of this design change with previously approved modifications must be determined by the installer. (3) A copy of this Certificate and FAA Approved Model List (AML) No. ST00881WI-D issued June 30, 2000, or later FAA approved revision, must be maintained as part of the permanent records for the modified aircraft. (4) Prior installation and approval of a Collins TTR-920 Change 6.04a Receiver Transmitter is a prerequisite to this STC. (5) If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

*This certificate and the supporting data which is the basis for approval shall remain in effect until  
surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the  
Federal Aviation Administration*

*Date of application:* June 29, 2000

*Date reissued:*

*Date of issuance:* June 30, 2000

*Date amended:* July 14, 2000, December 1, 2000



*By direction of the Administrator*



Administrator, DAS-500864-CE

*(Title)*

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





Avionics Certification Center

Cedar Rapids, IA 52498

**Rockwell  
Collins**

May 14, 2003

WO030737.DOC

**Flight Options**

Cleveland, OH 44143

Tel: (216) 797-3500

Attention: Mr. Jody Kremsreiter/  
Mr. Richard Fine (Collins on-site)

Subject: STC ST00881WI-D Modification of Collins TCAS II System Installation with Collins TTR-920 Change 6.04a Receiver Transmitter and TPR-900 Mode S to a Collins TCAS II System Installation with Collins TTR-920, Collins TTR-921 or Collins TTR-4000 Change 7.0 TCAS II Receiver Transmitter and optional TPR-901 in Part 25 Aircraft

Dear Mr. Kremsreiter:

Enclosed is a compact disk with one copy each of the following FAA approved STC data:

1. STC ST00881WI-D Certificate, dated December 1, 2000.
2. FAA Approved Model List (AML) Number ST00881WI-D, amended April 15, 2003.
3. Drawing Index 992-4358-001, Revision M.
4. One copy of each drawing listed on Drawing Index 992-4358-001.
5. Airplane Flight Manual Supplement, ACC-00-105, Revision -.

This letter is our authorization for Flight Options to use this STC as basis for the installation of our equipment in your airplanes based on the following model and serial numbers provided by Mr. [REDACTED] of Rockwell Collins.



STC ST00881WI-D

<u>Model</u>	<u>MSN</u>	<u>MSN</u>
400A	RK006	RK248
	RK016	RK252
	RK022	RK257
	RK027	RK260
	RK030	RK264
	RK031	RK265
	RK045	RK268
	RK062	RK271
	RK093	RK273
	RK146	RK274
	RK161	RK276
	RK168	RK279
	RK178	RK282
	RK180	RK284
	RK186	RK289
	RK189	RK292
	RK195	RK295
	RK198	RK297
	RK201	RK301
	RK202	RK305
	RK209	RK307
	RK222	RK310
	RK230	RK317
	RK234	RK324
	RK237	RK327
	RK239	RK328
	RK244	RK334
	RK245	

Please return a record of any additional aircraft serial number(s) to me for installations performed using this STC. My fax number is [REDACTED] Collins needs to receive this data before we can authorize additional installations.



Flight Options  
STC ST00881WI-D  
May 14, 2003  
Page 3

WO030737.DOC

Flight Options is responsible for the regulatory approval of any deviations from STC ST00881WI-D.

Instructions explaining how to access the data on the CD have been inserted inside the jewel case.

Customer satisfaction is important to us, and we would appreciate your input.  
Please complete and return the enclosed questionnaire or email me at  
[REDACTED] and let us know how we can best serve you.

We trust this data will fulfill your installation requirements. However, if you have any questions, please call me at [REDACTED]

Sincerely,

Collins Avionics Certification Center  
[REDACTED]

/pah

Enclosure





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

Form Approved  
OMB No. 2120-0020

For FAA Use Only

Office Identification

AIA-1500-23

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

1. Aircraft	Make <b>Beechjet</b>	Model <b>400A</b>
	Serial No. <b>RK-244</b>	Nationality and Registration Mark <b>USA N 793TA</b>
2. Owner	Name (As shown on registration certificate) <b>SAM AIR INC</b> <b>ET-AL</b>	Address (As shown on registration certificate) <b>WICHITA, KS 67207</b>

**3. For FAA Use Only**

The data identified herein complied with applicable airworthiness

The above described aircraft subject to conformity inspection

This approval is only for this aircraft make, model

Date **APR 23 2002** Approving Inspector

4. Unit Identification				5. Type	
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in item 1 above)			<b>X</b>	
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

**6. Conformity Statement**

A. Agency's Name and Address Keith Gawsyzawski Flight Options, Inc. [REDACTED] Richmond Hts., OH 44143	B. Kind of Agency <input checked="" type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No. AP 287603483
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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

April 5, 2002

**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 Ft. 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 <b>May 6, 2002</b>	Certificate or Designation No. <b>AP287603483TA</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.)

1. Removed existing Tail Navigation Light Assembly including the rubber shock mount.
2. Installed Whelen Engineering, Inc. Model 70805-01 Tail Position Light Assembly in accordance with part number 04-0112558-00 instruction sheet to include installation procedures and drawing number 70805.
3. The light assembly will be operationally tested under Flight Options Continuous Airworthiness Maintenance Program under Phases 1C, 9C and 17C.
4. Weight and Balance change found negligible.

-----  
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

5917 PR

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

1. Aircraft	Make RAYTHEON AIRCRAFT	Model 400A
	Serial No. RK-244	Nationality and Registration Mark USA N793TA
2. Owner	Name <i>(As shown on registration certificate)</i> KETTLER ROBERT, MICHELS PIPELINE CONSTRUCTION INC, SOUTHEASTERN MILLS INC, REI AIR LLC, ET-AL	Address <i>(As shown on registration certificate)</i> [REDACTED] WICHITA KS 67207-1315

3. For FAA Use Only

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

6. Conformity Statement

A. Agency's Name and Address RAYTHEON AIRCRAFT SERVICES [REDACTED] SAN ANTONIO TEXAS 78216	B. Kind of Agency U.S. Certificated Mechanic Foreign Certificated Mechanic X Certificated Repair Station Manufacturer	C. Certificate No. CRS-XA14605K LIMITED AIRFRAME
---	---	--

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

Date 12-10-01	[REDACTED]
------------------	------------

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 12-10-01		Certificate or Designation No. CRS-XA14605K		[REDACTED]	

## 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.)*

MAKE: RAYTHEON 400A

S/N: RK-244

REG: N793TA

DATE: 12-10-01

ALL SEVEN CABIN SEATS AND THE LAVATORY SEAT WERE FIREBLOCKED IN ACCORDANCE WITH FAR 25.853 (a) APPENDIX F PART I (a) (1) (ii) AND FAR 25.853 (c) APPENDIX F PART II AMENDMENT 25-83. THE FIREBLOCKING WAS ACCOMPLISHED IN ACCORDANCE WITH THE SKANDIA INC. TEST PLAN #8335 REV. IR DATED 12-04-01, REFERENCE THE FORM 8110-3 DATED 12-04-01 APPROVED BY [REDACTED], DESIGNATED ENGINEERING REPRESENTATIVE, #DERY-410100-CE, STRUCTURAL SPECIAL. SEE THE FORM 8110-3 DATED 10-09-01 AS REFERENCE FOR THE FIREBLOCKING FLAMMABILITY TEST RESULTS OF THE SEATS THAT WAS PREVIOUSLY TESTED AND APPROVED ON THE SKANDIA INC. TEST PLAN #8118 REV. IR DATED 10-01-01 FOR P/N 8118-1 AND 8118-2 ONLY, APPROVED BY [REDACTED], DESIGNATED ENGINEERING REPRESENTATIVE, #DERY-410100-CE, STRUCTURAL SPECIAL.

-----  
END-----

Additional Sheets Are Attached

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

EFTA00012076



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

*See 17 M*

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

1. Aircraft	Make RAYTHEON AIRCRAFT	Model 400A
	Serial No. RK-244	Nationality and Registration Mark USA N793TA
2. Owner	Name <i>(As shown on registration certificate)</i> KETTLER ROBERT, MICHELS PIPELINE CONSTRUCTION INC, SOUTHEASTERN MILLS INC, REI AIR LLC, ET-AL	Address <i>(As shown on registration certificate)</i> [REDACTED] WICHITA KS 67207-1315

3. For FAA Use Only

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

6. Conformity Statement

A. Agency's Name and Address RAYTHEON AIRCRAFT SERVICES [REDACTED] SAN ANTONIO TEXAS 78216	B. Kind of Agency U.S. Certificated Mechanic Foreign Certificated Mechanic <input checked="" type="checkbox"/> Certificated Repair Station Manufacturer	C. Certificate No. CRS-XA14605K LIMITED AIRFRAME RADIO CLASS I,II,III
---	---	--

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

Date 12-10-01	[REDACTED]
------------------	------------

7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is			<input checked="" type="checkbox"/> APPROVED	<input type="checkbox"/> REJECTED
BY	FAA Fit. Standards Inspector	Manufacturer	Inspection Authorization	Other (Specify)
	FAA Designee <input checked="" type="checkbox"/>	Repair Station	Person Approved by Transport Canada Airworthiness Group	

Date of Approval or Rejection 12-10-01	Certificate or Designation No. CRS-XA14605K	[REDACTED]
---	---	------------

## 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.)*

MAKE: RAYTHEON 400A

S/N: RK-244

REG: N793TA

DATE: 12-10-01

MODIFIED THE EXISTING RIGHT HAND FORWARD GALLEY/CLOSET CABINET IN ACCORDANCE WITH THE RAYTHEON AIRCRAFT SERVICES DWG. #528-2526-001 REV. A DATED 07-27-00, REFERENCE THE FORM 8110-3 DATED 12-07-01 APPROVED [REDACTED] DESIGNATED ENGINEERING REPRESENTATIVE, #DERT-405126-CE, STRUCTURAL. THE MODIFICATION CONSISTED OF INSTALLING ELECTRICAL PROVISIONS FOR A MAPCO, CUP HOLDERS AND LIGHTING IN THE FORWARD SECTION OF THE BAGGAGE CABINET. THE ELECTRICAL WIRING FOR THE GALLEY/CLOSET CABINET WAS INSTALLED IN ACCORDANCE WITH THE RAYTHEON AIRCRAFT SERVICES DWG. #RAS-73-0112 REV. IR DATED 12-05-01, REFERENCE THE FORM 8110-3 DATED 12-07-01 APPROVED BY [REDACTED] DESIGNATED ENGINEERING REPRESENTATIVE, #DERT-710137-SW, SYSTEMS AND EQUIPMENT. THE MODIFIED GALLEY/CLOSET CABINET HAS A NEW WEIGHT OF 84.5 Lbs. AND A MOMENT OF 12844.0. THE WEIGHT AND BALANCE FORM AND THE EQUIPMENT LIST HAVE BEEN REVISED AND BOTH FORMS HAVE BEEN INSERTED IN THE AIRCRAFT FLIGHT MANUAL.

-----END-----

Additional Sheets Are Attached

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

EFTA00012078



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

Scut M

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

1. Aircraft	Make RAYTHEON AIRCRAFT	Model 400A
	Serial No. RK-244	Nationality and Registration Mark USA N793TA
2. Owner	Name <i>(As shown on registration certificate)</i> KETTLER ROBERT, MICHELS PIPELINE CONSTRUCTION INC, SOUTHEASTERN MILLS INC, REI AIR LLC, ET-AL	Address <i>(As shown on registration certificate)</i> [REDACTED] WICHITA KS 67207-1315

3. For FAA Use Only

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

6. Conformity Statement

A. Agency's Name and Address RAYTHEON AIRCRAFT SERVICES 1115 PAUL WILKINS ROAD SAN ANTONIO TEXAS 78216	B. Kind of Agency U.S. Certificated Mechanic Foreign Certificated Mechanic <input checked="" type="checkbox"/> Certificated Repair Station Manufacturer	C. Certificate No. CRS-XA14605K LIMITED AIRFRAME
---	---	--

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

Date  
12-10-01

Approvals for Authorization 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)
	<input checked="" type="checkbox"/>	Repair Station	Person Approved by Transport Canada Airworthiness Group		
Date of Approval or Rejection 12-10-01		Certificate or Designation No. CRS-XA14605K		[REDACTED]	

**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.)*

MAKE: RAYTHEON 400A

S/N: RK-244

REG: N793TA

DATE: 12-10-01

FABRICATED AND INSTALLED A NEW THE LIFE VEST CONTAINER IN THE TOILET CABINET IN ACCORDANCE WITH THE RAYTHEON AIRCRAFT SERVICES DWG. #562-3832-001 REV. IR DATED 08-22-00, REFERENCE THE FORM 8110-3 DATED 12-07-01 APPROVED BY [REDACTED] DESIGNATED ENGINEERING REPRESENTATIVE, #DERT-405126-CE, STRUCTURAL. THE LIFE VEST CONTAINER WAS FABRICATED USING AAR COMPOSITES FLAT NOMEX PANEL P/N ATR-FP-251F2, REFERENCE THE FORM 8110-3 DATED 07-01-99 APPROVED BY [REDACTED] DESIGNATED ENGINEERING REPRESENTATIVE, #CHI-410, STRUCTURAL SPECIAL. THE MODIFICATION OF THE CONTAINER WAS FOR THE INSTALLATION OF A NEW EASTERN AERO MARINE LIFE VEST, P/N PO1074-113. THE WEIGHT CHANGE IS NEGLIGIBLE. THE EQUIPMENT LIST HAS BEEN REVISED TO REFLECT THE NEW LIFE VEST AND HAS BEEN INSERTED IN THE AIRCRAFT FLIGHT MANUAL.

-----  
END-----

Additional Sheets Are Attached

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

EFTA00012080



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

Form Approved  
OMB No. 2120-0020

For FAA Use Only  
Office Identification  
**DPA-FSDO**

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

1. Aircraft	Make RAYTHEON	Model 400A
	Serial No. RK-244	Nationality and Registration Mark N793TA
2. Owner	Name (As shown on registration certificate) AIRCAP LLC	Address (As shown on registration certificate) [REDACTED] WICHITA, KS 67207-1315

**3. For FAA Use Only**

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

APR 04 2000

DATE

PAIR INSPECTOR

DPA-FSDO

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  Elliott Aviation [REDACTED] Moline, IL 61266-0100	B. Kind of Agency  U.S. Certified Mechanic Foreign Certified Mechanic <input checked="" type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No.  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 3/29/2000	Signature of Authorized Individual [REDACTED]
-------------------	--

**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 FAA Designee	Manufacturer <input checked="" type="checkbox"/> Repair Station	Inspection Authorization Person Approved by Transport Canada Airworthiness Group	Other (Specify)
Date of Approval or Rejection 4/14/2000	Certificate or Designation No. CGHR812C	Signature of Authorized Individual [REDACTED]	

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 accomplished.)

1. INSTALLED PENNY & GILES PASSENGER DIGITAL CABIN DISPLAY MODEL 2700.
2. THE CABIN DISPLAY WAS FLUSH MOUNTED IN THE FWD RH CLOSET/GALLEY CABINET AT 152.0 INCHES AFT OF DATUM FACING AFT. CONNECTED UNIT TO FACTORY PROVISION HARNESS LOCATED IN THE CABINET. THE UNIT WILL DISPLAY TEMPERATURE, TRUE AIRSPEED, ALTITUDE AND E.T.A. INFORMATION. THE DISPLAY IS FAA/PMA CERTIFIED. THE CABIN DISPLAY WAS INSTALLED IN ACCORDANCE WITH B&D INSTALLATION MANUAL P/N 2700-003-026 REV O DATED DECEMBER 19,1996.
3. PERFORMED EMI INTERFERENCE TEST IN ACCORDANCE WITH AC43.13-1B SECTION 8 PARAGRAPH 11-107 AND FAR 23.1309 AND 23.1431.
4. WEIGHT AND BALANCE DATA, EQUIPMENT LIST AND AIRFRAME LOGBOOKS WERE REVISED TO REFLECT THIS INSTALLATION.
5. FOR THE ABOVE INSTALLED SYSTEM NO ADDITIONAL MAINTENANCE IS REQUIRED BEYOND THE REQUIREMENTS OF 14 CFR PART 91 SUBPART E MAINTENANCE, PREVENTATIVE MAINTENANCE AND ALTERATIONS PER THE FOLLOWING INSTALLATION MANUAL:  
(1) B&D INSTALLATION MANUAL P/N 2700-003-026 REV O DATED DECEMBER 19,1996
5. INSTRUCTIONS FOR CONTINUED AIRWORTHINESS CHECKLIST  
(1) INTRODUCTION-REF THIS 337 FORM BLOCK 1  
(2) DESCRIPTION-REF THIS 337 FORM BLOCK 8  
(3) CONTROL OPERATION INFORMATION- REF THIS 337 FORM BLOCK 8  
(4) SERVING INFORMATION-NOT APPLICABLE  
(5) MAINTENANCE INSTRUCTIONS-REF THIS 337 FORM BLOCK 8  
(6) TROUBLESHOOTING INFORMATION-REF THIS 337 FORM BLOCK 8  
(7) REMOVAL AND REPLACEMENT-REF THIS 337 FORM BLOCK 8  
(8) DIAGRAMS- NOT APPLICABLE  
(9) SPECIAL INSPECTION REQUIREMENTS-NOT APPLICABLE  
(10) APPLICATION OF PROTECTIVE TREATMENTS-NOT APPLICABLE  
(11) DATA-NOT APPLICABLE  
(12) LIST OF SPECIAL TOOLS-NOT APPLICABLE  
(13) COMMUTER CATERGORY A/C- ELECTRICAL LOAD ANALYSIS-NOT APPLICABLE  
(14) NO ADDITIONAL OVERHAUL TIME LIMITATIONS  
(15) AIRWORTHINESS LIMITATIONS SECTION-NOT APPLICABLE  
(16) REVISION-IF A REVISION TO THIS ICA IS NECESSARY A LETTER WILL BE SUBMITTED TO THE LOCAL FSDO WITH A COPY OF THE REVISED FAA FORM 337 AND REVISED ICA.

END

Additional Sheets Are Attached

★ U.S. G.P.O. 1990-761-753

EFTA00012082



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

Form Approved  
OMB No. 2120-0020

For FAA Use Only

Office Identification

DPA-FSDO

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

1. Aircraft	Make BEECH	Model 400A
	Serial No. RK-244	Nationality and Registration Mark N793TA
2. Owner	Name (As shown on registration certificate) AIRCAP LLC	Address (As shown on registration certificate) WITCHA KS 67207-1315

### 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  Elliott Aviation [REDACTED] Moline, IL 61266-0100	B. Kind of Agency  <input type="checkbox"/> U.S. Certified Mechanic <input type="checkbox"/> Foreign Certified Mechanic <input checked="" type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No.  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  
4/14/00

Sign

### 7. Approval for Return to Service

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

BY	FAA Fit. Standards Inspector	Manufacturer	Inspection Authorization	Other (Specify)
	FAA Designee	X Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 4/14/00		Certificate or Designation No. CGHR812C		

negligible.

B. Description of Work Accomplished \_\_\_\_\_

With all previous alterations to assure conformed conformativity with the applicable airworthiness requirements.

## NOTICE



US Department  
of Transportation  
Federal Aviation  
Administration

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

Form Approved  
OMB No. 2120-0020

For FAA Use Only

Office Identification

WICHITA FSDO SHW

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

1. Aircraft	Make Raytheon	Model 400A
	Serial No. RK-244	Nationality and Registration Mark N428HR
2. Owner	Name (As shown on registration certificate) See Attached Copy	Address (As shown on registration certificate) [REDACTED] Wichita, KS 67201

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				

RECEIVED  
WICHITA FSDO  
03-06-00  
1:06 PM

6. Conformity Statement

A. Agency's Name and Address Kenneth W. Chitty 101 S. Webb P.O. Box 2902 Wichita, Ks 67201-2902	B. Kind of Agency <input checked="" type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certified Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No. 454944057
---	---	---------------------------------

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 03-06-00	Signature of Aut	[REDACTED]
------------------	------------------	------------

7. Approval for Return

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 03-06-00		Certificate or Designation No. 454944057	Signature of	[REDACTED]	

**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 Dog Harness P/N CS-H-1 in accordance with Aerodesign Engineering Report 1912-1 Rev.IR, 6-9-96, ( Faa Form 8110-3 dated 03-03-2000 is the Approved Data ) "Structual Substantiation, Restraint Harness for a Dog, installed into an Aircraft."

This installation meets FAR 25.853b-2 Flammability requirements.

This harness will be stored with the A/C loose equipment and a copy of the Engineering report will be placed in the Flight Manual, instructions are in paragraph 3.0

No Weight & Balance change.

XXXXXXXXXXXXXXXXXXXXXXXXXXXXENDXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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
N7931A	RAYTHEON AIRCRAFT COMPANY 4000A	RK-244	TRANSPORT

**5. AUTHORITY AND BASIS FOR ISSUANCE**

This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein.

Exceptions: **None**

**6 TERMS AND CONDITIONS**

Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.

DATE OF ISSUANCE

R-10/01/99

DESIGNATION NUMBER

ACE-FSDO-07

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.



UNITED STATES OF AMERICA  
DEPARTMENT OF TRANSPORTATION—FEDERAL AVIATION ADMINISTRATION

**STANDARD AIRWORTHINESS CERTIFICATE**

1 NATIONALITY AND REGISTRATION MARKS	2 MANUFACTURER AND MODEL RAYTHEON AIRCRAFT COMPANY 400A	3 AIRCRAFT SERIAL NUMBER RK-244	4 CATEGORY TRANSPORT
N428HR			

**5 AUTHORITY AND BASIS FOR ISSUANCE**

This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein.

Exceptions:

**NONE**

**6 TERMS AND CONDITIONS**

Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.

DATE OF ISSUANCE

**10-01-99**

DESIGNATION NUMBER

**DMIR CE-501157**

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.





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  
SW FSDO 17 *BFG*

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

1. Aircraft	Make RAYTHEON	Model 400A
	Serial No. RK-244	Nationality and Registration Mark USA N428HR
2. Owner	Name <i>(As shown on registration certificate)</i> RAYTHEON AIRCRAFT COMPANY	Address <i>(As shown on registration certificate)</i> [REDACTED] WICHITA, KANSAS 67201-0085

3. For FAA Use Only

4. Unit Identification				5. Type	
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	*****	***** <i>(As described in Item 1 above)</i>	*****		X
POWERPLANT					
PROPELLER					
APPLIANCE	Type [REDACTED]				
	Manufacturer [REDACTED]				

6. Conformity Statement					
A. Agency's Name and Address		B. Kind of Agency		C. Certificate No.	
RAYTHEON AIRCRAFT SERVICES [REDACTED] SAN ANTONIO TEXAS 78216		U.S. Certificated Mechanic	Foreign Certificated Mechanic	CRS-XA14605K	LIMITED AIRFRAME
		X Certificated Repair Station			RADIO CLASS I,II,III
		Manufacturer			

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

Date 12-22-99	[REDACTED]
7	

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) [REDACTED]
	FAA Designee	X	Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 12-22-99		Certificate or Designation No. CRS-XA14605K		[REDACTED]	

## 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.)*

MAKE: RAYTHEON 400A

S/N: RK-244

REG: N428HR

DATE: 12-22-99

INSTALLED AN ALLIEDSIGNAL FLITEFONE VI AIRBORNE RADIOTELEPHONE SYSTEM CONSISTING OF THE FOLLOWING EQUIPMENT:

<u>MOD/MFG</u>	<u>DESCRIPTION</u>	<u>P/N</u>	<u>WEIGHT</u>	<u>ARM</u>
RT-18D	REC/TRANSMITTER W/RACK	400-0125-2000	7.8	47.8
WH-10	HANDSET	400-0123-112	1.5	106.3
WH-10	HANDSET W/CORD	400-0123-112	2.5	252.0
AT-462	ANTENNA	121-014378-01	0.5	365.1

THE ALLIEDSIGNAL FLITEFONE VI SYSTEM WAS INSTALLED IN ACCORDANCE WITH THE BEECH AIRCRAFT CORPORATION DWG. #128-340675, REV. ORIGINAL, DATED 11-13-95 AND THE CHANGE ORDER #G76866 DATED 10-11-96. THE ELECTRICAL WIRING FOR THIS INSTALLATION WAS INSTALLED IN ACCORDANCE WITH THE BEECH AIRCRAFT CORPORATION DWG. 128-340606 REV. A DATED 10-27-94.

A FUNCTIONAL TEST OF THE EQUIPMENT HAS BEEN PERFORMED IN ACCORDANCE WITH FAR 25.1301, FAR 25.1309 AND CHECKED IN ACCORDANCE WITH FAR 25.1431 FOR OPERATING SATISFACTORILY AND DID NOT ADVERSELY AFFECT OTHER COMPONENTS INSTALLED IN THE AIRCRAFT.

THE ALLIEDSIGNAL FLITEFONE VI OPERATORS MANUAL P/N: 006-08834-0000 AND THE INSTRUCTIONS FOR CONTINUED AIRWORTHINESS DOC. #FF VI-ICA-RK-244 DATED 12-22-99 HAVE BEEN INSERTED IN THE AIRCRAFT AS PART OF THE AIRCRAFT'S PERMANENT RECORDS.

THE AIRCRAFT WEIGHT AND BALANCE FORM AND EQUIPMENT LIST HAVE BEEN REVISED TO REFLECT THIS MODIFICATION AND BOTH FORMS HAVE BEEN INSERTED IN THE AIRCRAFT FLIGHT MANUAL.

-----  
END-----

Additional Sheets Are Attached

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

EFTA00012092

## INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

### FOR A BEECHCRAFT MODEL 400A

#### WITH AN ALLIEDSIGNAL FLITEFONE VI AIRBORNE RADIOTELEPHONE SYSTEM

1. INTRODUCTION: THIS MAJOR ALTERATION TO THIS AIRCRAFT OBLIGATES THE AIRCRAFT OPERATOR TO INCLUDE THE FOLLOWING MAINTENANCE INFORMATION PROVIDED BY THIS DOCUMENT IN THE OWNER/OPERATOR'S AIRCRAFT MAINTENANCE MANUAL AND THE OWNER/OPERATOR'S AIRCRAFT SCHEDULED MAINTENANCE PROGRAM.
2. DESCRIPTION: THE ALLIEDSIGNAL FLITEFONE VI AIRBORNE RADIOTELEPHONE SYSTEM CONSISTS OF A RECEIVER/TRANSMITTER INCLUDING ITS MOUNTING RACK, TWO HANDSETS INCLUDING MOUNTING RACKS, TWO RETRACT CORDS, AN ANTENNA, ASSOCIATED WIRING, AND ANY RELATED HARDWARE. THE BASIC RADIOTELEPHONE SYSTEM IS A MOBILE COMMUNICATION SYSTEM FOR AIRCRAFT. IT OPERATES IN A FREQUENCY RANGE BETWEEN 454.675 - 454.975 Mhz 13 CHANNELS TO RECEIVE AND 459.675 - 459.975 Mhz 13 CHANNELS TO TRANSMIT.
3. CONTROL, OPERATION INFORMATION: REFERENCE THE ALLIEDSIGNAL FLITEFONE VI INSTALLATION MANUAL, REV. E, REPORT 1362, BASIC ISSUE DATED SEP. 1/90 AND THE ALLIEDSIGNAL FLITEFONE VI OPERATOR'S MANUAL P/N 006-08834-0000.
4. SERVICING INFORMATION: THE ALLIEDSIGNAL FLITEFONE VI AIRBORNE RADIOTELEPHONE SYSTEM IS ON CONDITION AND THERE IS NO PERIODIC, PREVENTIVE, OR SCHEDULED MAINTENANCE REQUIRED FOR CONTINUED OPERATION OF THIS SYSTEM.
5. MAINTENANCE INSTRUCTIONS: THE SCHEDULED MAINTENANCE TASKS REQUIRED BY THIS MODIFICATION TO BE ADDED TO THE AIRCRAFT OWNER/OPERATORS APPROPRIATE AIRPLANE MAINTENANCE PROGRAM AS FOLLOWS:
  - a. PERFORM, ON AT LEAST AN ANNUAL BASES, A PERIODIC INSPECTION OF THE EQUIPMENT RACK, EQUIPMENT MOUNTINGS, ASSOCIATED WIRING, CABLES, CONNECTORS, HARDWARE, ANTENNA AND RELATED AIRCRAFT STRUCTURE FOR INTEGRITY, SECURITY, WEAR, CHAFFING, AND ETC.. SPECIAL ATTENTION SHOULD BE GIVEN TO THE AIRCRAFT PRIMARY STRUCTURE WITH REGARDS TO FATIGUE AND STRESS CRACKING, CORROSION, AND ETC..
6. TROUBLESHOOTING INFORMATION: REFERENCE THE ALLIEDSIGNAL FLITEFONE VI AIRBORNE RADIOTELEPHONE SYSTEM MAINTENANCE MANUAL P/N 150-1364-000 REV. E, DATED SEP. 90 OR LATER REVISION.
7. REMOVAL AND REPLACEMENT INFORMATION: REFERENCE THE ALLIEDSIGNAL FLITEFONE VI AIRBORNE RADIOTELEPHONE SYSTEM MAINTENANCE MANUAL P/N 150-1364-000 REV. E, DATED SEP. 90 OR LATER REVISION. SHOULD IT BECOME NECESSARY TO REMOVE THE FLITEFONE VI, SECURE THE ASSOCIATED CABLES AND WIRING, COLLAR THE APPLICABLE CIRCUIT BREAKERS, PLACARD THE AIRCRAFT THAT THE UNIT HAS BEEN REMOVED, REVISE THE WEIGHT & BALANCE AND THE EQUIPMENT LIST AND MAKE A LOGBOOK ENTRY. THE UNIT HAS BEEN REMOVED FOR SERVICE, REFER TO 91.213 OF TITLE 14 OF THE CODE OF FEDERAL REGULATIONS AND/OR THE AIRCRAFT'S MEL.
8. DIAGRAMS: THERE ARE NO ACCESS PLATES THAT NEED TO BE REMOVED FOR INSPECTION.
9. SPECIAL INSPECTION REQUIREMENTS: SPECIAL INSPECTION REQUIREMENTS ARE NOT APPLICABLE.
10. APPLICATION OF PROTECTIVE TREATMENTS: APPLICATION OF PROTECTIVE TREATMENTS ARE NOT APPLICABLE.
11. DATA: INSTALLATION REQUIREMENTS MAY BE FOUND WITHIN THE ACCEPTED INDUSTRY PRACTICES CONTAINED WITHIN AC 43.13-1B CHAPTERS 4, 6, 7, 11, AND 12, AND IN ACCORDANCE WITH AC 43.13-2A CHAPTERS 1, 2, 3, 11, AND 13.



12. LIST OF SPECIAL TOOLS: SPECIAL TOOLS ARE NOT REQUIRED.
13. FOR COMMUTER CATEGORY AIRCRAFT: NOT APPLICABLE, THIS AIRCRAFT NOT COMMUTER CATEGORY AIRCRAFT
- a. ELECTRICAL LOADS: THE RAYTHEON AIRCRAFT SERVICES ELECTRICAL LOAD ANALYSIS DOCUMENT # \_\_\_\_\_ REV. \_\_\_\_\_ DATED \_\_\_\_\_ AND THE RAYTHEON AIRCRAFT SERVICES EMI/RFI GROUND TEST PROCEDURES DOCUMENT # \_\_\_\_\_ REV. \_\_\_\_\_ DATED \_\_\_\_\_ HAVE BEEN PLACED IN THE AIRCRAFT AS PART OF THE AIRCRAFT's PERMANENT RECORDS.
- b. METHODS OF BALANCING FLIGHT CONTROLS: N/A TO THIS INSTALLATION
- c. IDENTIFICATION OF PRIMARY AND SECONDARY STRUCTURES: N/A TO THIS INSTALLATION
- d. SPECIAL REPAIR METHODS APPLICABLE TO THE AIRPLANE: N/A TO THIS INSTALLATION
14. RECOMMENDED OVERHAUL PERIODS: THERE ARE NO ADDITIONAL OVERHAUL TIME LIMITATIONS.
15. AIRWORTHINESS LIMITATION SECTION: THERE ARE NO ADDITIONAL AIRWORTHINESS LIMITATIONS.
16. REVISION: THE INSTRUCTIONS FOR CONTINUED AIRWORTHINESS CHECKLIST (ICA) MAY BE REVISED BY SUBMITTING A LETTER TO THE LOCAL FSDO WITH A COPY OF THE REVISED FAA FORM 337 AND REVISED ICA. THE FAA INSPECTOR ACCEPTS THE CHANGE BY SIGNING BLOCK 3 AND INCLUDING THE FOLLOWING STATEMENT: "THE ATTACHED REVISED/NEW INSTRUCTIONS FOR CONTINUED AIRWORTHINESS (DATE \_\_\_\_\_) FOR THE ABOVE AIRCRAFT OR COMPONENT MAJOR ALTERATION HAVE BEEN ACCEPTED BY THE FAA, SUPERSEDING THE INSTRUCTIONS FOR CONTINUED AIRWORTHINESS (DATE \_\_\_\_\_)." ONCE THE REVISION HAS BEEN ACCEPTED, A MAINTENANCE RECORD ENTRY WILL BE MADE, IDENTIFYING THE REVISION, ITS LOCATION AND DATE OF THE FORM 337.
17. ASSISTANCE: NOT APPLICABLE.
18. IMPLEMENTATION AND RECORD KEEPING:
  - a. FOR MAJOR ALTERATIONS PERFORMED IN ACCORDANCE WITH FAA FIELD APPROVAL POLICY, THE OWNER/OPERATOR OPERATING UNDER PART 91 IS RESPONSIBLE FOR ENSURING THAT THE ICA IS MADE PART OF THE APPLICABLE SECTION 91.409 INSPECTION PROGRAM FOR THEIR AIRCRAFT. THIS IS ACCOMPLISHED WHEN A MAINTENANCE ENTRY IS MADE IN THE AIRCRAFT'S MAINTENANCE RECORD IN ACCORDANCE WITH SECTION 43.9. THIS ENTRY RECORDS THE MAJOR ALTERATION AND IDENTIFIES THE ORIGINAL ICA LOCATION (e.g., BLOCK 8 OF FAA FORM 337) ALONG WITH A INSPECTION/MAINTENANCE REQUIREMENTS.
  - b. FOR MAJOR ALTERATIONS PERFORMED IN ACCORDANCE WITH A FIELD APPROVAL ON AIR CARRIER AIRCRAFT, THE AIR CARRIER OPERATOR IS RESPONSIBLE FOR ENSURING THAT THE ICA IS MADE PART OF THE APPLICABLE INSPECTION/MAINTENANCE PROGRAM FOR THEIR AIRCRAFT. IF A PROCEDURE IS NOT CURRENTLY INCLUDED IN THE OPERATOR'S MANUAL TO INCORPORATE ICA, THIS PROCESS WILL NEED TO BE APPROPRIATELY ADDRESSED (i.e. THE OPERATOR SUBMITS A REVISION TO ITS MAINTENANCE PROGRAM TO THE APPLICABLE CERTIFICATE-HOLDING DISTRICT OFFICE (CHDO).
  - c. FOR AIRCRAFT INSPECTED UNDER AN APPROVED AIRCRAFT INSPECTION PROGRAM (AAIP), THE OPERATOR WILL SUBMIT A CHANGE TO THE CHDO IN ACCORDANCE WITH SECTION 135.419B.
  - d. FOR AIR CARRIER AIRCRAFT INSPECTED USING AN ANNUAL 100 HOUR INSPECTION PROGRAM, A REFERENCE TO NEW ICA WILL BE MADE IN THE AIRCRAFT'S MAINTENANCE RECORD IN ACCORDANCE WITH SECTION 43.9. THIS ENTRY RECORDS THE MAJOR ALTERATION AND IDENTIFIES THE ORIGINAL ICA LOCATION (e.g., ICA ARE LOCATED/ATTACHED TO BLOCK 8 OF FAA FORM 337). IN ADDITION, THE OPERATOR WILL REQUEST A REVISION TO THE OPERATOR'S OPERATIONS SPECIFICATIONS, ADDITIONAL MAINTENANCE REQUIREMENTS, WHICH INCORPORATES THE ICA INTO THE INSPECTION PROGRAM.





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  
SW FSDO 17 *BR*

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

1. Aircraft	Make RAYTHEON	Model 400A
	Serial No. RK-244	Nationality and Registration Mark USA N428HR
2. Owner	Name (As shown on registration certificate) RAYTHEON AIRCRAFT COMPANY	Address (As shown on registration certificate) [REDACTED] WICHITA, KANSAS 67201-0085

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.	
RAYTHEON AIRCRAFT SERVICES [REDACTED] SAN ANTONIO TEXAS 78216		U.S. Certificated Mechanic	Foreign Certificated Mechanic	CRS-XA14605K	LIMITED AIRFRAME RADIO CLASS I,II,III
		X Certificated Repair Station	Manufacturer		

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

Date	12-22-99				
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Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is  APPROVED  REJECTED

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

Date of Approval or Rejection 12-22-99	Certificate or Designation No. CRS-XA14605K	[REDACTED]			
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## NOTICE

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

### 8. Description of Work Accomplished

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

MAKE: RAYTHEON 400A

S/N: RK-244

REG: N428HR

DATE: 12-22-99

INSTALLED A SUNDSTRAND MK-VI GROUND PROXIMITY WARNING SYSTEM CONSISTING OF THE FOLLOWING EQUIPMENT:

MOD/MFG	DESCRIPTION	P/N	WEIGHT	ARM
MK-VI	GPWS COMPUTER	965-0686-020	4.2	33.1
ADC-500	CONVERTER	500-8020	2.3	38.2
	BRACKET & PLATE		0.5	36.1
	WIRING & CONNECTOR		3.5	54.0

THE SUNDSTRAND MK-VI GPWS SYSTEM WAS INSTALLED IN ACCORDANCE WITH THE STC #SA3322SO ISSUED 09-18-92 AND REISSUED 10-04-95 AND THE HANGER ONE MASTER DRAWING LIST #11892-GPWS, REV. D DATED 03-22-93. THE ELECTRICAL WIRING WAS INSTALLED IN ACCORDANCE WITH THE RAYTHEON AIRCRAFT SERVICES DWG. #RAS-67-9917 REV. IR DATED 11-05-99, REFERENCE THE FORM 8110-3 DATED 11-23-99 APPROVED BY ROBERT M. HURLEY, DESIGNATED ENGINEERING REPRESENTATIVE #DERT-710137-SW, SYSTEMS AND EQUIPMENT.

A FUNCTIONAL TEST OF THE EQUIPMENT HAS BEEN PERFORMED IN ACCORDANCE WITH FAR 25.1301, FAR 25.1309 AND CHECKED IN ACCORDANCE WITH FAR 25.1431 FOR OPERATING SATISFACTORILY AND DID NOT ADVERSELY AFFECT OTHER COMPONENTS INSTALLED IN THE AIRCRAFT.

THE SUNDSTRAND MK-VI GPWS APPROVED FLIGHT MANUAL SUPPLEMENT, REV. B DATED 03-30-93 HAS BEEN INSERTED IN THE SUPPLEMENT SECTION OF THE AIRCRAFT FLIGHT MANUAL AND THE GPWS PILOT'S GUIDE P/N 060-4087-000 REV. A DATED 10-96 HAS BEEN INSERTED IN THE AIRCRAFT AS PART OF THE AIRCRAFT'S PERMANENT RECORDS.

THE AIRCRAFT WEIGHT AND BALANCE FORM AND THE EQUIPMENT LIST WERE REVISED TO REFLECT THIS MODIFICATION AND BOTH FORMS WERE INSERTED IN THE AIRCRAFT FLIGHT MANUAL.

-END-

Additional Sheets Are Attached

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

EFTA00012098

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

*Number*

SA3322SO

*This certificate, issued to*

Raytheon Aircraft Services, Inc.

[REDACTED]  
Fulton County Airport-Brown Field  
Atlanta, Georgia 30336

*certifies that the change in the type design for the following product with the limitations and conditions  
therefor as specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation  
Regulations.*

*Original Product—Type Certificate Number:* A16SW  
*Make:* Beech  
*Model:* 400A

*Description of Type Design Change:* Installation of a Sundstrand MK VI GPWS in accordance with Jangar  
One. Drawing List No. 11892-GPWS, Rev. B, dated September 17, 1992, or later FAA Approved revision.

*Limitations and Conditions:* This approval should not be extended to other aircraft of this model on which  
other previously approved modifications are incorporated unless it is determined by the installer that the  
interrelationship between this change and any of those other previously approved modifications will produce no  
adverse effect upon the airworthiness of that aircraft. FAA Approved Airplane Flight Manual Supplement,  
dated September 18, 1992, is a required part of this STC.

*This certificate and the supporting data which is the basis for approval shall remain in effect until sur-  
rendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the  
Federal Aviation Administration.*

*Date of application:* August 5, 1992

*Date issued:* October 4, 1995

*Date of issuance:* September 18, 1992

*Date amended:*



*By direction of the Administrator*

Associate Manager, ACE-116A  
Atlanta Aircraft Certification Office  
(Title)

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

*This certificate may be transferred in accordance with FAR 21.47.*



MASTER DRAWING 151

DWG. LIST NO. 11892-GPWS

DATE 9/1/92

REV. D

DATE 3/22/93

ET 1 OF 1 SYSTEM SUNDSTRAND MK-VI GPWS

AIRCRAFT TYPE BEECHJET 400A

F. A. A. PROJECT NO. CE-115A-2970

STC SA3322S0

DATED 9/18/92



## STATEMENT OF COMPLIANCE WITH THE FEDERAL AVIATION REGULATIONS

## AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION

MAKE	MODEL NO.	TYPE (Airplane, Radio, Helicopter, etc.)	NAME OF APPLICANT
Beech	400A	Airplane	Raytheon Aircraft Services

## LIST OF DATA

IDENTIFICATION	TITLE
Raytheon Drawings  RAS-67-9917 Rev IR Dated 11/05/99	Sundstrand Mk-VI Ground Proximity Warning Sys

Note: This approval is for the Electrical aspects of the engineering design data only, and is not installation approval.  
 Approval for aircraft S/N RK-244 only.  
 Approval for GPWS is for only the minor deviations to FAA STC SA332250.  
 After modification is complete, perform EMI/RFI test in accordance with Raytheon report RAS-GF-9714, EMI/RFI Test Procedure.

## PURPOSE OF DATA

In support of a modification to install a GPWS in serial number RK-244.

## APPLICABLE REQUIREMENTS (List specific sections)

FAR 25.1301 a,b,c      FAR 25.1359 d  
 FAR 25.1431 c

**CERTIFICATION** - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under Part 183 of the Federal Aviation Regulations, data listed above and on attached sheets numbered \_\_\_\_\_ None \_\_\_\_\_ have been examined in accordance with established procedures and found to comply with applicable requirements of the Federal Aviation Regulations.

I (xx) Therefore

Recommend approval of these data  
 Approve these data

SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S)	DESIGNATION NUMBERS(S)	CLASSIFICATION(S)
	DERT-710137-SW	Systems & Equipment



U.S. Department of Transportation  
Federal Aviation AdministrationAPPLICATION 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 N428HR		2. AIRCRAFT BUILDER'S NAME (Make) RAYTHEON AIRCRAFT COMPANY		3. AIRCRAFT MODEL DESIGNATION 400A		4. YR. MFR 1999	FAA CODING 7150010			
	5. AIRCRAFT SERIAL NO. RK-244		6. ENGINE BUILDER'S NAME (Make) Pratt & Whitney Canada		7. ENGINE MODEL DESIGNATION JT15D-5				52113		
	8. NUMBER OF ENGINES 2		9. PROPELLER BUILDER'S NAME (Make) N/A		10. PROPELLER MODEL DESIGNATION N/A		11. AIRCRAFT IS (Check if applicable)		IMPORT		
APPLICATION IS HEREBY MADE FOR : (Check applicable items)											
A	1	X	STANDARD AIRWORTHINESS CERTIFICATE (Indicate category)		NORMAL	UTILITY	ACROBATIC	X	TRANSPORT	GLIDER	BALLOON
B			SPECIAL AIRWORTHINESS CERTIFICATE (Check appropriate items)								
II. CERTIFICATION REQUESTED	2	LIMITED									
	5	PROVISIONAL (Indicate class)		1	CLASS I						
				2	CLASS II						
	3	RESTRICTED (Indicate operation(s) to be conducted)		1	AGRICULTURE AND PEST CONTROL		2	AERIAL SURVEYING		3	AERIAL ADVERTISING
				4	FOREST (Wildlife conservation)		5	PATROLLING		6	WEATHER CONTROL
				7	CARRIAGE OF CARGO		0	OTHER (Specify)			
	4	EXPERIMENTAL (Indicate operation(s) to be conducted)		1	RESEARCH AND DEVELOPMENT		2	AMATEUR BUILT		3	EXHIBITION
				4	RACING		5	CREW TRAINING			MKT. SURVEY
				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 IMPENDING DANGER								
		3	OPERATION IN EXCESS OF MAXIMUM CERTIFICATED TAKE-OFF WEIGHT								
		4	DELIVERING OR EXPORT		5	PRODUCTION FLIGHT TESTING					
		6	CUSTOMER DEMONSTRATION FLIGHTS								
C		6	MULTIPLE AIRWORTHINESS CERTIFICATE (Check ABOVE "Restricted Operation" and "Standard" or "Limited" as applicable.)								
III. OWNER'S CERTIFICATION	A. REGISTERED OWNER (As shown on certificate of aircraft registration)					IF DEALER, CHECK HERE → <input checked="" type="checkbox"/>					
	NAME RAYTHEON AIRCRAFT COMPANY				ADDRESS P.O. BOX 85 WICHITA, KS 67201						
	B. AIRCRAFT CERTIFICATION BASIS (Check applicable blocks and complete items as indicated)										
	X	AIRCRAFT SPECIFICATION OR TYPE CERTIFICATE DATA SHEET (Give No. and Revision No.) A16SW, Rev. 19			X	AIRWORTHINESS DIRECTIVES (Check if all applicable AD's complied with and give latest AD No.) ISSUE 99-20					
		AIRCRAFT LISTING (Give page number(s)) N/A				SUPPLEMENTAL TYPE CERTIFICATE (List number of each STC incorporated) N/A					
	C. AIRCRAFT OPERATION AND MAINTENANCE RECORDS										
	X	CHECK IF RECORDS IN COMPLIANCE WITH FAR 91.473- 417	TOTAL AIRFRAME HOURS 6:40			3	EXPERIMENTAL ONLY (Enter hours flown since last certificate issued or renewed)				N/A
	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 10-01-99		Eugene Hainstock – Administrative Staff QA								
	IV. INSPECTION AGENCY VERIFICATION	A. THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY : (Complete this Section)									
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 10-01-99		TITLE CE-43				SIGNATURE					
V. FAA REPRESENTATIVE CERTIFICATION	(Check ALL applicable blocks in items A and B)				X	THE CERTIFICATE REQUESTED					
	A. I find that the aircraft described in Section I or VII meets requirements for :				4	AMENDMENT OR MODIFICATION OF CURRENT AIRWORTHINESS CERTIFICATE					
	B. Inspection for a special permit under Section VII was conducted by:					FAA INSPECTOR		FAA DESIGNEE			
						CERTIFICATE HOLDER UNDER:		FAR 65	FAR 121, 127 OR 135	FAR 145	
	DATE 10-01-99		DISTRICT OFFICE CE-43	4			1	FAA INSPECTOR'S SIGNATURE			

VI. PRODUCTION  
FLIGHT TESTING

A. MANUFACTURER		NAME	ADDRESS	ADDRESS	NAME AND TITLE (Print or type)	DATE OF APPLICATION	NAME AND TITLE (Print or type)	DATE OF CERTIFICATE	PRODUCTION BASIS (Check applicable item)	B. PRODUCTION
										PRODUCTION CERTIFICATE (Give production certificate number)
										TYPE CERTIFICATE ONLY
										PRODUCTION CERTIFICATE (Give production certificate number)
										APPROVED PRODUCT INSPECTION SYSTEM
										C. GIVE QUANTITY OF CERTIFICATES REQUIRED FOR OPERATING NEEDS
										APPROVED PRODUCT INSPECTION SYSTEM
										D. APPROVALS FOR OPERATING NEEDS
										REGISTERED OWNER
										BUILDER (Make)
										MODEL
										SERIAL NUMBER
										FROM
										TO
										C. CREW REQUIRED TO OPERATE THE AIRCRAFT AND ITS EQUIPMENT
										D. THE AIRCRAFT DOES NOT MEET THE APPLICABLE AIRWORTHINESS REQUIREMENTS AS FOLLOWS:
		PILOT	CO-PILOT	NAVIGATOR	OTHER (Specify)					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.
										G. Statement of compliance with FAR 91.9
										H. Foreign Airworthiness Certificate issued in accordance with
										I. Previous Airworthiness Certificate issued in accordance with
										C. Data, Drawing, Photographs, etc. (Attached when required)
										D. Current Weight and Balance Information Available in Aircraft
										E. Major Repair and Alteration, FAA Form 337 (Attached when required)
										F. This Inspection Recorded in Aircraft Records
										GAR 211B3 (a) per 183-31 (Copy attached)
										H. Current Airworthiness Certificate issued in accordance with
										I. Previous Airworthiness Certificate issued in accordance with
										J. Current Airworthiness Certificate issued in accordance with
										K. Current Operating Limitations Attached
										L. Previous Airworthiness Certificate issued in accordance with
										M. Previous Airworthiness Certificate issued in accordance with
										N. Previous Airworthiness Certificate issued in accordance with
										O. Previous Airworthiness Certificate issued in accordance with
										P. Previous Airworthiness Certificate issued in accordance with
										Q. Previous Airworthiness Certificate issued in accordance with
										R. Previous Airworthiness Certificate issued in accordance with
										S. Previous Airworthiness Certificate issued in accordance with
										T. Previous Airworthiness Certificate issued in accordance with
										U. Previous Airworthiness Certificate issued in accordance with
										V. AIRWORTHINESS DOCUMENTATION (FAA use only)

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

1 NATIONALITY AND REGISTRATION MARKS  N428HR	2 MANUFACTURER AND MODEL  RAYTHEON AIRCRAFT COMPANY 400A	3 AIRCRAFT SERIAL NUMBER  RK-244	4 CATEGORY  TRANSPORT
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**5 AUTHORITY AND BASIS FOR ISSUANCE**

This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein.  
Exceptions.

**NONE**

**6 TERMS AND CONDITIONS**

Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.

DATE OF ISSUANCE

DESIGNATION NUMBER

10-01-99

DMIR CE-501157

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.**



1. Country - Pays <b>CANADA</b>	2.  Transport Canada	Transports Canada	Form Formulaire	24-0078	3. Certificate Ref. No. - N° de référence du bon <b>SEE BLOCK 5</b>	
4. Organization - Organisme <b>Pratt &amp; Whitney Canada</b> Une société de United Technologies / A United Technologies Company					5. Work Order/Contract/Invoice - Bon de travail/contrat/facture <b>Longueuil, Quebec J4G 1A1</b> <b>P.O. # 4000014605</b>	
6. Item	7. Description	8. Part No - N° de pièce <b>FREE TURBINE TURBOFAN JT15D-5</b>	9. Eligibility - Admissibilité <b>3030100</b>	10. Qty - Qté <b>1</b>	11. Serial/Batch No. - N° de séries/lot <b>VARIOUS</b>	12. Status/Work - État/travail <b>PCE-JA0256</b>
<b>MANUFACTURED</b>						

## 13. Remarks - Remarques

CANADIAN TYPE APPROVAL E-11, FAA TYPE CERTIFICATE E25EA.

THIS ENGINE CONFORMS TO ITS UNITED STATES TYPE DESIGN (TYPE CERTIFICATE NUMBER E25EA) AND IS IN CONDITION FOR SAFE OPERATION.  
THIS ENGINE HAS BEEN SUBJECTED BY THE MANUFACTURER TO A FINAL OPERATION CHECK AND IS IN A PROPER STATE OF AIRWORTHINESS.

14. New Parts - Pièces neuves : <b>AWM M de N</b>	15. Chapter 561 Chapitre 561  Certified that the part(s) identified above, except as otherwise specified in block 13, has (have) been manufactured/inspected in accordance with the applicable design data and with the airworthiness	16. Approval Ref. No. - Réf. d'autorisation <b>DOT APPROVAL 4 - 58</b>	17. Date <b>MAY 18 1999</b>	18. Used Parts - Pièces usagées : <b>CAR RAC</b>  Certified that the maintenance specified above has been performed in accordance with the applicable standards of airworthiness. Except as otherwise specified in block 13, the part(s) is (are) released for service.	19. Signature	20. Name (typed or printed) - Nom (dactylographié ou imprimé)	21. Approval Ref. No. - Réf. d'autorisation <b>571.10 - Maintenance Release 571.10 - Certification après maintenance</b>

\* Installer must cross-check eligibility with applicable technical data - Le monteur doit vérifier l'admissibilité avec les données techniques pertinentes.

## USER/INSTALLER RESPONSIBILITIES

## RESPONSABILITÉS DE L'USAGER/MONTEUR

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Il est important de bien comprendre que de par son existence ce document ne constitue pas forcément l'autorisation d'installer la pièce/composant/ensemble.

Where the user/installer works in accordance with the national regulations of an Airworthiness Authority different than the Airworthiness Authority of the country specified in block 1 it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in block 1.

Lorsque l'usager/monteur(euse) travaille conformément aux règlements nationaux d'une autorité de navigabilité, autre que l'autorité de navigabilité inscrite à la case 1, il est essentiel que l'usager/monteur(euse) s'assure que son autorité de navigabilité accepte les pièces/composants/ensembles de l'autorité de navigabilité inscrite à la case 1.

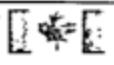
Statements 14 and 19 do not constitute installation certification. In all cases the aircraft technical maintenance record must contain a maintenance installation certification issued in accordance with the national regulation by the user/installer before the aircraft may be flown.

Les déclarations apparaissant aux cases 14 et 19 ne constituent pas une certification de montage. En tout temps le dossier technique de l'aéronef doit contenir une certification après maintenance émise selon les règlements nationaux, par l'usager/monteur(euse), avant que l'aéronef puisse décoller.

24-0078 (1998-10)

EFTA00012109

R/H

2.  Transport Canada	Transports Canada	Form Formulaire	24-0078	3. Certificate Ref. No. - N° de référence du bon	
AUTHORIZED RELEASE CERTIFICATE - BON DE SORTIE AUTORISÉ				SEE BLOCK 5	
4. Client & Whitney Canada United Technologies / A United Technologies Company				5. Work Order/Contract/Invoice - Bon de travail/contrat/facture Longueuil, Quebec J4G 1A1 P.O. # 4000016693	
FREE TURBINE TURBOFAN JT15D-5	8. Part No - N° de pièce 3030100	9. Eligibility - Admissibilité VARIOUS	10. Qty - Quantité 1	11. Serial/Batch No - N° de séries/lot PCE-JA0257	12. Status/Work - État/Travail MANUFACTURED

APPROVAL E-11, FAA TYPE CERTIFICATE E25EA.

FORMS TO ITS UNITED STATES TYPE DESIGN (TYPE CERTIFICATE NUMBER E25EA) AND IS IN CONDITION FOR SAFE OPERATION.  
BEEN SUBJECTED BY THE MANUFACTURER TO A FINAL OPERATION CHECK AND IS IN A PROPER STATE OF AIRWORTHINESS.

13. Notes : Identified above, except as block 13, has (have) been in accordance with the and with the airworthiness diqué.	14. AWM M de N Chapter 561 Chapitre 561	15. Used Parts - Pièces usagées : Certified that the maintenance specified above has been performed in accordance with the applicable standards of airworthiness. Except as otherwise specified in block 13, the part(s) is (are) released for service.	CAR RAC 571.10 - Maintenance Release 571.10 - Certificat après maintenance
	16. Approval Ref. No. - Réf. d'autorisation [DOT APPROVAL 4 - 58]	17. Signature	18. Approval Ref. No. - Réf. d'autorisation
	19. Date MAY 19 1999	20. Name (typed or printed) - Nom (dactylographié ou imprimé)	21. Date

\* Installer must cross-check eligibility with applicable technical data - Le monteur doit vérifier l'admissibilité avec les données techniques pertinentes.

#### USER/INSTALLER RESPONSIBILITIES

1. That the existence of this document alone does not automatically constitute authority to  
assemble.  
2. In accordance with the national regulations of an Airworthiness Authority different than  
that of the country specified in block 1 it is essential that the user/installer ensures that his/her  
parts/components/assemblies from the Airworthiness Authority of the country specified

3. It constitute installation certification. In all cases the aircraft technical maintenance record  
ce installation certification issued in accordance with the national regulation by the  
aircraft may be flown.

#### RESPONSABILITÉS DE L'USAGER/MONTEUR

- Il est important de bien comprendre que de par son existence ce document ne constitue pas forcément l'autorisation d'installer la pièce/composant/ensemble.
- Lorsque l'usager/monteur(euse) travaille conformément aux règlements nationaux d'une autorité de navigabilité, autre que l'autorité de navigabilité inscrite à la case 1, il est essentiel que l'usager/monteur(euse) s'assure que son autorité de navigabilité accepte les pièces/composants/ensembles de l'autorité de navigabilité inscrite à la case 1.
- Les déclarations apparaissant aux cases 14 et 19 ne constituent pas une certification de montage. En tout temps le dossier technique de l'aéronef doit contenir une certification après maintenance émise selon les règlements nationaux, par l'usager/monteur(euse), avant que l'aéronef puisse décoller.