# N318DN 1981 Citation I/SP

# FAA Form 337s

Aircraft S/N: 501-0184



Prepared by the worldwide aviation specialists at RidgeAire, Inc.

U.S Department of
Transportation
Federal Aviation
Administration

# MAJOR REPAIR AND ALTERATION

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

Electronic Tracking Number

Transpo	Aviation		( <i>F</i>	Airtr	ame, Pov	erplan	it, P	ropeller, or A	Appliance)		For FA	A Use Only	
and	dispositio	n of this f	form. This	repo	ries. See FAR rt is required be deral Aviation	v law (49	U.S.C.	ppendix B, and AC . 1421). Failure to	43.9-1 (or subsequer report can result in a	nt revision civil penalt	thereof) for inst not to exceed	tructions \$1,000	
Nationality and Registration Mark USA N318DN									Serial No. 501-0184	·			
i. Aircr	ait	Make CESS	SNA						Model 501		Series		
Name (As shown on registration certific REULAND ELECTRIC CO.									Address (As shown on registration certificate) Address 17969 RAILROAD ST City CITY OF INDUSTRY State CA.				
		L					3	3. For FAA Use O	zip 91748-1113 nlv		Country USA	<u> </u>	
	4. Type							5. U	nit Identification		1		
Repa	air Alt	eration		Un	nit			/lake	Model			Serial Number	
			AIRFRA	ME		_		No. 113	(As described in Ite	m 1 above	•		
	]		POWE	RPLA	ANT								
	]		PROPE	LLEI	R								
	1	П	APPLIANCE			Туре							
					Manufacturer								
							6.	. Conformity Stat	ement				
	ncy's Nam						В. К	ind of Agency					
	ASEY N						×	U.S. Certificated I			Manufacturer		
	4012 H		NDS BL	.VD				Foreign Certificate	ed Mechanic		Certificate No		
Zip 983	JYALLU 372	,	Country U	JSA	State WA.			Certificated Repa	ir Station enance Organization	AF	23709969		
h	nave been	made in	accordance	e with	n the requirem	ents of Pa	rt 43 c	ed in item 5 above a of the U.S. Federal	and described on the Aviation Regulations	reverse or and that th	attachments he e information	ereto	
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 CASEY MATTHEWS													
					specified belo	w, the unit	identi		to Service  nspected in the mann  JECTED	er prescrib	ed by the		
	FAA	FAA Fit Standards Inspector  Manufacturer  Maintenance Organization  Person Approved by Canadia Department of Transport											
BY		Designe	ee		Repair Statio	n	Х	Inspection Author	zation	Other	(Specify)	·	
Certifica Designa 5367606	ation No.			_	ature/Date of A		l Indivi	idual	J			8-8-19	
FAA	Form 33	<b>7</b> (10-0	6)	<u> </u>				<del>/</del>	. R.N.			-	

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

(If more space is required, attach additional sheets.	Identify with aircraft nationality and registration	n mark and date work completed.)
	USA N318DN	08/08/19
	Nationality and Registration Mark	Date
USA,N318DN, S/N: 501-0184 work or	der 2207	
AVIONICS INSTALLATION  1) Removed the following equipment: Dual VHF Integrated Nav Source selector, RS08-011 Relay Multi-Function display, and 1U434-001 Frequence	assembly, KA92 GPS antenna, CI401-46	
2) Installed the following equipment: Garmin GT GTX335R Transponder, Dual GAD42 Adapters, GPS/XM antenna, and Sandia AIS240-35 Relay ST02432LA. Reference JETTECH Master Documents	GDL69 XM WX receiver, GA35 GPS ar assembly. This equipment is installed in a	ntenna, Comant CI-428-410
Minor pin assignment changes, as allowed by the C501\SN5010184\3, 4, 7, 8, 9, 10, 11, 12, 13, 14		CE Aviation, Inc. drawings:
Existing, approved, mounting locations and provent antennae.	isions are used for the GA35 GPS antenna	a and CI-428-410 GPS/XM
Existing COM, NAV, Glideslope, and Transpond	der antennae are used.	
The existing RDR2000 Radar sensor is integrated	d to the GTN750 system for display and c	ontrol
AFMS p/n: JTECH-WAAS-0102 rev D, dated 02 0003 rev D dated 07/20/18, have been provided to		rworthiness, p/n: JTECH-WAAS
	END	*
	•	

US Department
of Transportation
<b>Federal Aviation</b>
Administration

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

Form Approved OMB No. 2120-0020	Electronic Tracking Number
2/28/2011	

For FAA Use Only

	deral Aviat ministratio		(Λιιτα	, 1	ower plant, i iv	~ r	,	noi, oi App	nanoc,	,					
in	struction		ition of th	is form	ies. See Title 14 C . This report is requ										
		Nationalit		istratio	n Mark		•		Serial						
1. A	ircraft	N318DI Make	<u> </u>						501- Mode	-0184				Series	
		CESSN	ıΔ							SNA				501-0184	
				n regisi	tration certificate)			•			shown	on reg	istratio	n certificate)	
2 0	wner									s <u>1796</u>					
-	*******	DELILA	ND ELE	CTDI	C CO				City Zip	<u>CITY</u> 9174		NDUS		Si untry UNITED (	tate <u>CA</u>
		INCOLA	IND ELL	CIKI	<del> </del>		3.	For FAA Use		3174	0-111	<del></del>		unu ONTED	STATES
	4. Ty	pe					5.	Unit Identifica	ation						
F	Repair	Alteration	Ur	iit	N	/lal	ke				Mod	iel		S	Serial No.
		V	AIRFRAI	ME		-			(As described in Item 1 above)						
			POWER	PLANT						•					
			PROPEL	LER.											
			APPLIA	ICE	Type  Manufacturer										
		<u>'</u>	<u>.                                    </u>		·	6.	. C	onformity Sta	tement						
	<u> </u>	Name and A				4	В	. Kind of Agend	<del>-</del>				T		
Name Addre		amento Cita Citation Wa		rice Ce	enter	-	_	U. S. Certificated Mechanic Manufacturer  Foreign Certificated Mechanic C. Certificate No.							
City	Sacra	amento	-		State CA		✓ Certificated Repair Station								
Zip	9583	7Co.	untry <u>USA</u>					Certificated N	laintenan	ice Orgai	nizatior	<u>ا</u>	CNQ4	918C	
D.	have b	een made in	accordan	ce with	on made to the unit the requirements o o the best of my kn	of F	Рaі	rt 43 of the U.S	5 above . Federa	e and de Il Aviatio	escribe on Reg	ed on ti gulation	ne reve is and t	rse or attachme hat the informat	nts hereto ion
	ended rai			Signa	ature/Date of Autho	riz	zed	Individual	$\overline{}$					)	
per App	14 CFR I . B	Part 43		Ric	chard Lind	C	oli	n 🔏	/			17	-	/ 11.	15/16
				· · · · · ·	<del></del>			oval for Return	to Serv	rice	<u> </u>	<i>~</i> <u>~</u>		<del></del>	
					ons specified below ministration and is	W,	, tł		ed in it Appro			nspecte Rejecte		he manner pro	escribed by the
BY		AA Flt. Stand spector	lards	Man	ufacturer		N	Maintenance Or	ganizatio	on				ved by Canadian Transport	
١	F	AA Designee	. 🗸	Rep	air Station		lı	nspection Auth	oriza		Othe	r (Spec	ify)		
	ficate or gnation I			Signa	ature/Date of Autho	riz	zed	I Individual	/		/_<	フ			
CN	CNQ4918C  Signature/Date of Authorized Individual  Narciso Tadeo  11/15/14								15/16						

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.

Description of Work Accomplished		
(If more space is required, attach additional sheets. Identify with aircra	r	
	N318DN	11/15/2016
	Nationality and Registr	ation Mark - Date
Aircraft serial number: 501-0184 Aircraft time: 9119.2		
Completion of this FAA Form 337 is to document the IR/G dated 11/04/2016 and Antenna Installation Analysis AvSpe		
Weight and balance change and equipment list information	n was updated.	
Instructions for Continued Airworthiness (ICA): No change Component to be inspected under normal inspection criter Manual.		
•		
		•
<u>.</u>	•	

✓ Additional Sheets Are Attached

# U.S. DEPARTMENT OF TRANSPORTATION 1. DATE FEDERAL AVIATION ADMINISTRATION November 4, 2016 STATEMENT OF COMPLIANCE WITH THE FEDERAL AVIATION REGULATIONS AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION 5. NAME OF APPLICANT 4. TYPE (Airplane, Radio, Helicopter, etc.) 2. MAKE 3. MODEL NO. Sacramento Service Center 5850 Citation Way 501 AIRPLANE Textron Aviation Inc. Sacramento, CA 95837 LIST OF DATA 7. TITLE 6. IDENTIFICATION Report(s): Antenna Installation Analysis for Cessna 501, Registration Number N318DN, Serial Rpt No: 110316 Number 501-0184 Rev: N/C Date: 11/3/16 Drawing(s): Dwg No: 501-318DN Cessna 501 IR/GPS Antenna Installation Rev: N/C Date: 11/2/16 ----- LAST ITEM THIS SHEET ------NOTES: 1. This approval indicates the data listed above demonstrates compliance only with the regulations specified by paragraph and subparagraph listed below as "Applicable Requirements". Compliance to additional regulations not listed here may be required. This form does constitute FAA approval of the entire repair. 2. Structural aspects only of the above listed data are approved. This approval is only for the engineering design data. 3. This data is valid only for Cessna 501, R/N N318DN, S/N 501-0184. Substantiate data in support of FAA Form 337. 8. PURPOSE OF DATA: TITLE 14 CFR, PART 23, FEDERAL AIR REGULATIONS: 9. APPLICABLE REQUIREMENTS (List specific sections) Subpart C §23.301(a)[Amdt 23-48], §23.303[Amdt 0], §23.305(a)(b)[Amdt 23-45], §23.307(a)[Amdt 0]; Subpart D \$23.365(a)(b)(c)(d)(Amdt 0], \$23.601(Amdt 0], \$23.603(Amdt 23-23), \$23.605(a)(Amdt 23-23), \$23.609(a)(Amdt 0), and §23.613[Amdt 23-45]. 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 NA have been examined in accordance with established procedures and found to comply with applicable requirements of the Airworthiness Standards listed. Recommend approval of these data I Therefore Approve these data 11. SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S) 12. DESIGNATION NUMBER(S) 13. CLASSIFICATION(S) STRUCTURES (P1, P4) DERT-605449-NM ROBERT B. POE

# US Department of Transportation Federal Aviation Administration

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

Form Approved OMB No. 2120-0020

For FAA Use Only

Office Identification

INSTRUCTIONS: Print or type all entries	See FAR 43.9 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).	and the second s

\$1,00	0 for each	such violation	(Sec	tion 901 Feder	al Aviation	n Act	of 1958).	rallure to report c	an result II	i a civii periaity no	t to exceed				
		Make						Model							
1. Aircı	raft		CESSNA 501												
		Serial No.	14 C	1104				Nationality and Re	Mark						
501-0184 Name (As shown on registration certific					aartifiaat.			N501							
		Name (As sh	OWIT	un registration	ceruncau	3)		Address (As show	vn on regis	tration certificate)					
2. Own	er 	VIF	RGO	COMMODI	ries	3505 BOCA CHICA BLVD STE 109 BROWNSVILLE, TEXAS 78521-4064									
					3	. For	FAA Use Only	1							
								_							
_				4. Uni	t Identific	catio	n			5. Type					
ι	Jnit		Make	9		i	Model	Seri	al No.	Repair	Alteration				
AIRFR/	AME	(As descr					in Item 1 above	) ~~~~~~			· x				
POWE	RPLANT														
PROPE	ELLER														
		Туре							······································						
APPLIA	NCE										:				
		Manufacture	er												
		·			6. (	Conf	ormity Statem	ent			<u> </u>				
		e and Address		"OF OFNE		B. K	Kind of Agency			C. Certificate No.					
ONE C	ESSNA I	OHATION S	>EK	VICE CENT	=R		U.S. Certified		LIMITED AIRFRAME						
		TX. 78216				×	Foreign Certif Certificated R			CNQ5918C					
						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.								ments hereto nation							
Date					7			rized Individual	<del></del>						
April 10, 2011						Jombann									
7. Appr						oval	for Return to	Service							
Pursua Ad <u>min</u>	ant to the a	uthority given the Federal Av	perso iation	ons specified b Administration	elow the	unit	identified in ite	n 4 was inspected	in the mar	ner prescribed by	the				
BY	FAA FIt. Inspecto	Standards r		Manufacturer			Inspection Au	thorization	Other (S <sub>f</sub>	pecify)					
	FAA Des		x	Repair Station	1		Person Appro Canada Airwo	ved by Transport rthiness Group							
Date of	Approval of 4/10/2	or Rejection 011		tificate or ignation No. CNQ5918	(	Sigr	nature of Autho	rized Individual							
AA For	m 337 (12-8	38)	<u> </u>	CNUSS18	<u> </u>		10n	5 Color	<u> </u>	1					

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.

all previous alterations to assure continued conformity with the applicable airworthiness requirements.	vvitii
B. Description of Work Accomplished (If more space is required, attach additional sheets, Identify with aircraft nationality and registration mark and date work accomplished	d )
CITATION MODEL 501 SERIAL NUMBER 501-0184 REGISTRATION NUMBER N501VC TOTAL AIRFRAME TIME HOURS: 8569	<i>u.)</i>
This form is to correct the field approved 337 Dated March 5, 2004 concerning the radar system installed at that time. The correct nomenclature for the Bendix/King radar system installed is RDR2000 Radar system not RDR 2100. The two system are similar in form and function.	ms
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Additional Sheets Are Attached

US Department
of Transportation
Federal Aviation
Administration

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

Form Approved OMB No. 2120-0020 2/28/2011	Electronic Tracking Number
F	or FAA Use Only

inst	ruction		ition o	f this	form.										ubsequent revision thereof) for result in a civil penalty for each
		Nationalit		•		n Mark	_			Serial	No.				
l		N318N						501-0184							
1. Air	craft	Make	Make							Model			•		Series
l		Cessna								501					501
				n on	regist	ration certificate)					ss (As	show	n on re	gistration	n certificate)
									Address	1796	9.Ra	ilroad.	St		
2. Ow	ner									City	City c	of Ind	ustry		State CA
		Reuland	d Elec	ctric	Co.					Zip	<u>91748</u>	8-11 <sup>-</sup>	13	Cou	untry UNITED STATES
							3.	. For FAA	Use	Only					
	4. Ty	/pe					5	. Unit Ide	ntifica	ation					
Re	pair	Alteration		Unit		Ma	ke	)				Мо	del		Serial No.
		<b>V</b>	AIRF	RAM	ME			(As de			lescribe	escribed in Item 1 above)		above)	
	 ]		POW	ERPI	LANT										
			PROI	PELL	ER			•							
						Туре							_		
			APPL	IANC	Œ	Manufacturer									
		·	<u> </u>			6	. C	Conformi	ty Sta	tement					
A. Ag	ency's	Name and A	ddress	3		·····	Е	3. Kind of	Agend	у			,		
Name		na Aircraft		any				U. S. (	Certific	ated Mech	anic			Ma	anufacturer
Address	<u>5850</u>	Citation W	ay				L	Foreig	n Certi	ficated Me	chanic			C. Cert	tificate No.
City	Sacra 9583	amento	untry U	<u>ς</u> Λ		_ State CA	ľ	+		Repair Stat					0400
Zip				*			L	. 1		Maintenand				CNQ4	
	have b	een made in	accor	dance	e with	on made to the unit( the requirements of o the best of my kno	Рa	art 43 of th							rse or attachments hereto hat the information
		nge fuel			Signa	ature/Date of Authori	ze	d Individu	aí						
per 14 App. 8		Part 43			/	ber,	Ž				Maı	rsh	all l	Ba	auguss 08/24/10
					_	7. Ap	pr	oval for F	Return						
						ons specified below ministration and is	, t	the unit		ied in ite			inspect		he manner prescribed by the
		AA Flt. Stand	dards		Man	ufacturer	ı	Maintenar	nce Or	ganizatio	'n				ved by Canadian Transport
BY		AA Designee	)	1	Rep	air Station		Inspection	n Auth	orization		Oth	er (Spe	cify)	
	cate or				Signa	ature/Date of Authori	ze	d Individu	al						
Design	nation	NO.				Jun	-4	- W	Mis	1111	1		<b>)</b> - :-	:!	M
ICNO	4918	C ,				Mun	X	1/0/	WK	NWY	/		Jen	inis I	Murany 08/24/10

FAA Form 337 (10-06)

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 natio	nality and registration mark and date	work completed.)
		N318DN	08/24/2010
	•	Nationality and Registration Mark	Date
S/N: 501-0184			•
TTSN: 8507.2			
Completion of this form is to document the remova alteration was performed by removing the Cockpit E0044-01), and by collaring the CVR circuit break	Voice Record	der (P/N: GA100-0000), contr	ice Recorder. This ol panel (P/N: 191-
Updated Weight and Balance Data along with Airc	craft Equipmen	nt List.	
	-END		
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·			
	Additional Sheet	to Are Attached	

# US Department of Transportation Federal Aviation Administration

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

Form Approved
OMB No. 2120-002

For FAA Use Only

Office Identification

and dispositi		report is required 901 Federal Aviatio	by lav	N (49	) U.S.C. 1421).		9-1 (or subsequent report can result in c				
				- !	in a direction of the second o	and the second					
1. Aircraft	Serial No. 501-01	84	<del> </del>				-				
2. Owner	Name (As shown o				s English (Alba) National State (Alba)	Address (As shown on registration certificate) 17969 RAILROAD ST CITY OF INDUSTRY, CA 91748					
		7	7	3. F	or FAA Use O	nly			***		
	et det en e	a ma nitrad	Α, Δ 	yati.	Tokas Grad		Nervitana kara£k	, .*•	r ty.		
4. Unit Identification 5. Ty											
Unit	Ma	ake	•		Model		Serial No.		Repair	Alteration	
AIRFRAME		(	'As des	cribe	d in Item 1 abo	ve)				<b>x</b> ;	
; POWERPLANT											
PROPELLER											
APPLIANCE	Type Manufacturer										
A Agency's N	ame and Address		6	_	formity State (ind of Agency	ment		C. Certifi	icate No		
Paul A. Nyenh		<del></del>		×	U.S. Certificate	d Mechanic		O. Cerun	icate IVO.		
18928-59th Di	· · · <del>-</del>	c.			Foreign Certific		nic	159554	14		
Arlington, WA  D. I certify th		eration made to the unit	(s) identi	fied in	Manufacturer item 4 above and	described o	on the reverse or attach	ments here	to have been m	ade in ,	
	the requirements of Pa	art 43 of the U.S. Feder	al Aviatio				on furnished herin is true	and correct	ct to the best of	ny knowledge.	
Date	3/23/2007		(	2	nature of Autho	0 /v	yal-				
Piumuant to th	no authority given n	areans analified be			I for Return T		nspected in the man	201 21000	ribad by tha		
Administrator	of the Federal Avia	tion Administration	and is		APPROVED	R	EJECTED		inner ny trie		
	Fit. Standards ector	Manufacturer	×		Inspection Authorization Other (Specify)						
FAA	Designee	Repair Station		Car	son Approved hada Airworthin	éss Group	P	<u>.</u>			
Date of Approv	23/2007	Certificate or Designation No.		7	nature of Autho	inzed indiv	Mych		<u> </u>	a * va.	

FAA Form 337 (12-88)

Electronic Version (Adobe)

N	O	T	C	F

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

INSTALLED FAA TSO-C71 KGS ELECTRONICS MODEL RG28 DC TO DC CONVERTER 28Vdc TO 14 Vdc/20 AMPS PER KGS ELECTRONICS REMOVAL/INSTALLATION MANUAL, DWG. NO. 183806 REV C, DATED DEC 20, 2005, AND AC43-13-2A, CHAPTER 2, SECTION 24, "OTHER MOUNTING AREAS," PARAGRAPH B, "RIGID--MOUNTED UNIT BASE," FIG 25.

CIRCUIT PROTECTION AND WIRE SIZE PER REMOVAL/INSTALLATION MANUAL."

UNIT IS MOUNTED AT STA 270, LEFT SIDE ON FLOOR IN PROTECTED BOX.

CONTINUOUS AIRWORTHINESS OF UNIT WILL BE MAINTAINED IN ACCORDANCE WITH THE INSTALLATION MANUAL.

THIS UNIT IS INCLUDED ON EQUIPMENT LIST AND NEW WEIGHT AND BALANCE WAS CALCULATED.

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[ ] Additional Sheets Are Attached

# US Department of Transportation

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

Form Approved
OMB No. 2120-0020
For EAA Use Or

FOR FAA USE O

Office Identification

112

Federal Aviation Administration

and disposition	NS: Print or typen of this form.	This r	eport is require	ed by law	(49 l	J.S.C. 1421).	AC 43.9-1 Failure to	l (or subs	equent re an result in	vision t	hereof) for ir I penalty not	nstructions to exceed	
	Make	ess				Model 501							
1. Aircraft	Serial No.	01-0	)184				Nationality and Registration Mark N433MM						
2. Owner		Name (As shown on registration certificat Reuland Electric Co					Address (As shown on registration certificated 17969 E Railroad St Industry CA 91749						
i	he data / elisable conthiness require ircraft, subject to 3.7. AY 1 4 2002 Date	ment confo	s and is approvements in specification	red only fo n by a per y L. Zlocze	r the son a	above describe	ed AR						
<u> </u>	-	A	ssistant Pantiga	thwennit	Sallo	IPTWP+FSDO-2	5	-		5	. <b>Туре</b>		
Unit	Make					Model		Seri	al No.		Repair	Alteration	
AIRFRAME		~~~~~ (As descr					e)			X			
POWERPLAN	PLANT												
PROPELLER													
APPLIANCE	APPLIANCE Manufacturer												
	,			6. (	Conf	ormity Staten	nent		***				
	me and Address				B. K	(ind of Agency					rtificate No.		
Cessna Aircra Sacramento ( 5850 Citation Sacramento,	citation Service Way	Cent	er		X	U.S. Certified Foreign Certi Certificated F Manufacturer	fied Mech Repair Sta	nanic		Radio Limite			
have been	the repair and/omade in accorda	nce v	vith the require	ments of I	Part 4	ntified in item 43 of the U.S.	4 above a	and descri	ibed on the egulations	e revers	se or attachn at the inform	nents hereto ation	
Date 5-14					Sigr	nature of Author	1/1	liyidual /					
				7. Appr		for Return to	<del>-/////</del>	- Carper C			160		
	e authority given of the Federal Av				unit	identified in ite			l in the ma JECTED	nner pr	rescribed by	the	
FAA Inspe	It. Standards		Manufacturer			Inspection Au			Other (S	Specify)			
FAA	Designee	х	Repair Station	n .		Person Appro	oved by T orthiness	ransport Group			•		
Date of Approx	al or Rejection		tificate or ignation No. CNQ4918	С		nature of Autho			n	/.//	Tayla		

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

B. Description of Work Accomplished

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

# CESSNA/CITATION COST ( nedman/ leftes)

N433MM 501-184

T.T. 7347.0

This is to document and certify a previously installed Honeywell KLN-90B global positioning system. The system was installed by unknown on an unknown date. A conformity inspection was performed to verify structural integrity, acceptable practices and materials, and that the operational performance meets approved data. GPS installed as a follow on to STC SA00241W1-D.

This system is limited to IFR use for en-route, terminal and non-precision approach.

The following publications and documents were referenced for review of this installation:

The Honeywell KLN-90B Installation Manual, #006-10521-0004, rev. 4, dated 10/97.

The FAA advisory circulars AC43-13-1B, AC43-13-2A (chapters 1,2 & 3), AC20-138.

The Cessna 501 Maintenance and Wiring Diagram Manual standard practices chapters.

The GPS antenna was installed above the cockpit per Cessna Engineering drawing # 9623023.

# Installed Equipment

MODEL

LESU TSO WORLD AND BEINDOCATION

KLN-90B Receiver

(.066-04031-1421<sub>20160</sub>) e san C-129 (A1) a vocauco A F.S. 100.64

KA-91 Antenna

071-01545,0200, vov action adaq a C-129, evaluation F.S. 145.20

Nav/GPS Source Selector

97-10344A-28

F.S. 104.64

FAA approved Flight Manual Supplement Dated <u>MAY 1 4 2002</u> was installed into the Aircraft Flight Manual and must be readily available to the crew when system is in use.

A KLN-90B pilots guide P/N 006-08773-0000, rev 1, dated 05/97, is aboard the aircraft and must be accessible to the flight crew during use.

Completed ground operational tests with satisfactory results I.A.W. manufacturers installation checkout procedures.

Performed VHF-Comm-harmonic interference test-per A.C. 20-138 requirements with no interference noted.

Electrical load analysis was performed and determined that load does not exceed 80% of the generators maximum continuous operating capacity per the approved Flight Manual.

The equipment list has been amended and the aircraft has been reweighed.

The KLN-90B is not to be used for navigation until a functional flight evaluation has been accomplished.

Instructions for continuous airworthiness requires visual inspection and operational test IAW manufacturers 

Functional flight evaluation performed on

SAN ANTONIO CITATION SERVICE CONTER

By CRS #CNQ 59/8C for Sacramento Citation CRS# CNQ4918C

Additional Sheets Are Attached

# FLIGHT TEST REPORT

Flight Data Evaluation for IFR nonprecision approach approval.

Equipment Mfg. Allied Signal

GPS Model KLN-90B

Serial Number X2218

Software Rev. 21/10

A/C Model CITATION I

A/C Serial Number 501-0184 Reg. N433MM

All flights were flown at 130kts I.A.S. 100' AGL per AC 20-130A. P=Pass F=Fail N/A= not applicable

- A. P Evaluate all operating modes of the equipment.
- B. P Examine interface of the other equipment.
- C. P Review failure modes and associated annunciations.
- D. P Evaluate steering response with autopilot coupled.
- E. P Evaluate instrument interface with HSI, CDI.etc.
- F. P Assess all switching and transfer functions including high power electrical loads and electrical bus switching.
- G.P Evaluate EMI & RFI on VHF frequencies 121.15, 121.17, 121.20, 131.25, 131.27 and 131.3
- H. P Evaluate accessibility of equipment controls.
- I. P Evaluation of visibility of displays and annunciators. No distracting glare or reflections.
- J. P Analysis of crew workload.
- K. P Accuracy should be verified by conducting at least 3 (three) low-level overflights of published runway thresholds.

	Reference c	oordinates	Actual	Error
KSAT-30L	N29-31.63	W098-27.93	N29-31.62	W098-27.92 .02
KSAT-30L	N29-31.63	W098-27.93	N29-31.63	W098-27.92 .01
KSAT-30L	N29-31.63	W098-27.93	N29-31.62	W098-27.91 .03

Maximum recorded error .03

- M. P Verify continuity of navigation data during normal aircraft maneuvers, including 30 degree bank turns for one minute.
- M. P For equipment approved for approach, conduct at least 3(three) published instrument approaches (retrieved from the data base to verify proper operation).

Approaches accomplished at:

#1 KSAT-30L

Results: Passed

#2 KSAT-30L

Results: Passed

#3 KSAT-30L

Results: Passed

I certify that the above recorded test flight information is correct and that the GPS equipment, as installed meets the above listed performance information.

Cert. No. CRS #CNQ5918C Date: 2-07-03

# US Department of Transportation

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

Form Approved OMB No. 2120-0020

For FAA Use Only

Office Identification Wアーフラ

Administration

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

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

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1ea 620317-2 1ea 902131-2 2ea 725729-805WH	Duplexer Antenna Handset			·			-4
2ea 725725-603W17 2ea 724864-801 1ea 725256-801	CDBR-1 CAS	**		•	. ••		
Magnastar C-2000 Inte	rface Control Doc	ument p/n: 4	181568 REV H	is reference	ed.		
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All power is supplied th	ru breakers and d	oes not exc	eed the load ca	pability of t	he electrical s	ystem.	
The installation complie	es with guidance c	ontained wit	thin AC25-10 fo	or installatio	n of nonrequir	ed electrical	equipment.
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The C-2000 system is I	PMA'd. This install	ation is con	sidered a follow	v-on based	on STC ST00	264DE-D.	•
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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

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

INSTALLED:

BENDIX/KING KLN-90A

GPS TSO-GPS ANT

5#11975 S#8529

GPS ANT NAU/GPS

SWITCH

S# N/A

MSG/WPT ANNUN S# N/A

RS08-350 TRANS UNIT

S#13140

PER MANUFACTURERS FAA APPROVED INSTALATION DATA STC SA2332CE-D, TSO-C129, BENDIX/KING PART # 006-10501-0000, REV 0, 09-16-93. AND REF TYPE CERTIFICATE INSTALLATION IN A CESSNA CITATION 525.

POWER IS OBTAINED THROUGH AVIONICS BUS W/ SAMP CURCUIT BREAKER LABLED "GPS". 5.

ALL INSTALATION WORK DONE IN ACCORDANCE WITH FAA AC 43.13-14, AND ADVISORY CIRCULAR #20-138.

GPS WAS INTERCONNECTED WITH HSI, FD/AUTOPILOT AND MODE C ENCODER LINES, FOR 3-D NAVIGATION, BUT INTERCONNECTS WITH NO OTHER AIRCRAFT SYSTEM AND DOES NOT INTERFERE WITH THE OPERATION OF ANY AIRCRAFT SYSTEM.

AN OPERATIONAL FLIGHT AND GROUND CHECKS WERE PERFORMED PER AC 20-138, APPDX 1(2)(d), TSO-C129 AND MANUFACTURERS AS ROVED SPECIFICATION.

THE NOTED SYSTEMS WERE FOUND NOT TO INTERFERE WITH NORMAL OPERATION OF OTHER EQUIPMENT INSTALLED IN THIS AIRCRAFT.

DUNCAN AUTONICS KLN-90A ATRPLANE FLIGHT MANUAL SUPPLEMENT DOC NO. TBICA-01, WAS PROVIDED. DATED: 2-23-95

THE INSTALLATION CONFORMS TO ACCEPTABLE METHODS, TECHNIQUES, AND PRACTICES CONTAINED IN AC 43.13 1-A and 2A and FAR 23.1301, 23.1305, 23.1307,23.1327, 23.1331, 23.1357, 23.1365, 23.1367, 23.1431, 145.59, STC SA2332CE-D AND TSO-C129.

WEIGHT HAD BALANCE CHANGES WERE MADE AND ENTERED IN THE FLIGHT MANUAL.

ALL THE WORK WAS ACCOMPLISHED AT DUNCAN AVIONICS/DUNCAN AVIATION INC. WO# TBICA

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☐ Additional Sheets Are Attached

QU.S. GOVERNMENT PRINTING OFFICE: 1992-769-012/60157

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

### 8. Description of Work Accomplished

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

REMOVED:

COLLINS

CONTROL UNIT CDU-85

5#081 S#035

AEU-85

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BUR INC

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INSTALLED: BENDIX/KING

KLN-90A GPS TSO S#11975

GPS ANT GPS ANT

S#8529

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RS08-350 TRANS UNIT

S#13140

PER MANUFACTURERS FAA APPROVED INSTALATION DATA. STC SA2332CE-D AND TSO-C129, BENDIX/KING PART # 006-10501-0000, REV 0, 09-16-93.

POWER IS OBTAINED THROUGH AVIONICS BUS W/ SAMP CURCUIT BREAKER LABLED "GPS".

ALL INSTALATION WORK DONE IN ACCORDANCE WITH FAA AC 43.13-14, FAA NOTICE N 8110.47 AND ADVISORY CIRCULAR #20-121A.

A "GPS NOT APPROVED FOR IFR." PLACARD WAS PLACED IN AIRCRAFT.

GPS WAS INTERCONNECTED WITH HSI, FDZAUTOPILOT AND MODE C ENCODER LINES, FOR 3-D NAVIGATION, BUT INTERCONNECTS WITH NO OTHER AIRCRAFT SYSTEM AND DOES NOT INTERFERE WITH THE OPERATION OF ANY AIRCRAFT SYSTEM.

AN OPERATIONAL GROUND CHECK WAS MADE PER MANUFACTURERS SPECIFICATION AND THE NOTED SYSTEMS WERE FOUND NOT TO INTERFERE WITH NORMAL OPERATION OF OTHER EQUIPMENT INSTALLED IN THIS AIRCRAFT.

SYSTEM MANUALS WERE PROVIDED AND LOG BOOK ENTRY MADE.

THE INSTALLATION CONFORMS TO ACCEPTABLE METHODS, TECHNIQUES, AND PRACTICES CONTAINED IN AC 43.13 1-A and 2A and FAR 23.1301, 23.1303, 23.1309,23.1327, 23.1331, 23.1357, 23.1345, 23.1367, 23.1431, 145.59, STC SA2332CE-D AND TSO-C129.

WEIGHT AND BALANCE CHANGES WERE MADE AND ENTERED IN THE FLIGHT , MANUAL .

ALL THE WORK WAS ACCOMPLISHED AT DUNCAN AVIONICS/DUNCAN AVIATION INC. WO# TBICA

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Additional Sheets Are Attached

QU.S. GOVERNMENT PRINTING OFFICE: 1892-769-012/60157

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

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

Installed Fairchild model GAlOO Cockpit Voice Recorder System for compliance with FAR 135.151 (a) and (b). This system consists of the following components:

- 1. Cockpit Voice Recorder P/N GA100-0000
- 2. Control Panel P/N 191-E0044-01
- 3. Area Microphone P/N 93-A055-95

3118 6 HAGGEN

- CVR Mounting Tray P/N 9300-343

  Impact Switch P/N 28Dc162300 | Securities of the cd7

  CVR Audio Mixer P/N 5020-1-1 | Securities of the beverage יי בון: פי זאפילקונים אוני יינ

The system is installed in accordance with Pairchild Installation Manual P/N FAR 04229004 PM \$2, Revision 2; Dated Fanuary 27, 1993, Avtech 5020-1-1 Installation Manual Revision...l,...Dated...May...4,7051990, Aerodyne Control Environmentally Sealed Impact Switch Drawing 6895 Revision L, Dated April 4, 1990, and practices outlined in AC43.131A, Chapters 5,11,15, and AC43.132A, Chapters 2,3,13.

The Cockpit Voice Recorder P/N GAl00-0000 is mounted on the Mounting Tray P/N 9300-343 at Fuselage Station 449.5 in the aft fuselage, on a locally manufactured shelf built from 2024-T3 aluminum sheet and standard AN hardware. See attached DER 8110-3 reports regarding structural integrity of the installation.

The Impact Switch P/N 28DCL6Z300 is mounted at Fuselage Station 449.5 on the above shelf using standard AN hardware.

The Area Microphone P/N 93-A055-95 is mounted at Fuselage Station 106.8 on the underside center forward edge of the Glareshield using standard AN hardware. Installation is within the recommended locations identified within FAA Advisory Circular 25.1457-1A.

The CVR Control Panel P/N 191-E0044-01 is mounted at Fuselage Station 97.3 at the lower center of the co-pilot instrument panel using standard

The CVR Audio Mixer P/N 5020-1-1 is mounted at Fuselage Station 122.5 behind the upolstery trim panel on the co-pilot side of the aircraft, using standard AN hardware. The CVR and Audio Mixer interface wiring diagrams are attached.

To meet current PAA requirments, the Fairchild model GA100-0000 CVR has been configured to record the first pilot and cockpit area mics onto the inner two tracks, and has been wired as such according the Fairchild Installation Manual P/N FAR 04229004 PM #2 Revision 2, Page 19 Figure 5.

The aircraft weight and balance and equipment list has been updated and revised. The revised data is located in the Aircraft Flight Manual.

8] Additional Sheets Are Attached

Cessna 501 N90CF July 26, 1993

Verified Cockpit Voice Recorder system installation to be in compliance with FAR 25.1457.

The procedure for operating, preflight testing and a description of the system is contained in the Fairchild Operating Instructions P/N FAR 04229004 PM #2, this information must be aboard the aircraft during all flight operations.

Inspection and maintenance of the Fairchild GA100 CVR System must be complied with in accordance with manufacturers instructions outlined in Fairchild Installations and Operating Instructions Manual P/N FAR 04229004 PM #2 Revision 2, or an inspection program appropriate to the FAR under which the aircraft will be operated.

An outline of the procedure used for flight and ground testing and evaluation of the CVR installation is contained in Fairchild Installation and Operating Instructions Manual P/N FAR 04229004 PM #2 Revision 2, Section 2.7, page 7 & 8, paragraph A thru H, Section 3.1, page 8 & 9, and Section 3.2, page 9. The testing described has established the clarity of voice communications recorded via the cockpit, pilot and co-pilot microphones under normal and greater than normal cockpit noise.

There are no deviations from CVR or aircraft manufacturers instructions. Field approval of the original data becomes void on installations incorporating deviations not listed on this form. Deviations not listed require resubmission of data.

NOTHING FOLLOWS

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2. OWNER

CESSNA

501-0184

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NAME (As shown on registration certificate)

SERIAL NO.

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# MAJOR REPAIR AND ALTERATION (Airfram), Powerplant, Propeller, or Appliance INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.

Form Approved Budget Bureau No. 04-R060.1 FOR FAA USE ONLY OFFICE IDENIAGE PSDO-07

501 NATIONALITY AND REGISTRATION MARK

N90CF

ADDRESS (As shown on registration certificate)
4500 Campus Drive, Suite 202
Newport Beach, CA 92660

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3. FOR FAA USE ONLY

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.)

06/15/91 N90CF
Installed King Aire Extended Tailcone Baggage Compartment per SPC No. \$2572CE.
Revised Weight & Balance and added Flight Manual Supplement.

Wednes, Kengale ACR4S00.07

ADDITIONAL SHEETS ARE ATTACHED

⊕U.S. GOÝERNMENT PRINTING OF FICE: 1986-659-121/40260

# RECEIVED DEC 0 8 1989

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

LGB FSDO

Form Approved Budget Bureau No. 04-R060.1 FOR FAA USE ONLY

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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be campatible 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. Identity with aircraft nationality and registration mark and date work completed.)

Installed 3M Stormscope System WX 1000+. This System was installed per manufactors installation Instructions and AC 43.13-1A Chapters 11,15 and AC 43.13-2A Chapters 2,3,13. Weight and Balance and Equip. List updated and Revised.

ADDITIONAL SHEETS ARE ATTACHED

		DEPARTMENT OF TRANSPORT				Approved . Bureau No. (	
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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

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

INSTALLATION OF COLLINS LRN-85 SYSTEM COMPONENTS.

DESCRIPTION OF EQUIPMENT INSTALLED: COLLINS COU-85 CONTROL DISPLAY UNIT

COLLINS CRU-85 COMPUTER RECEIVER UNIT

COLLINS AEU-85 AUXILIARY EQUIPMENT UNIT COLLINS ACH-85 ANTENNA COUPLER, H FIELD COLLINS ANC-85 ANTENNA, H FIELD

ABOVE EQUIPMENT INSTALLED IN ACCORDANCE WITH COLLINS INSTALLATION MANUAL NO. 523-0770599-00211A & 523-0770601-002118 DATED 15 APRIL 1981.

THE ABOVE LISTED INCOMPLETE/PIECEMEAL INSTALLATION OF COLLINS LRN-85 VLF/ONEGA NAVIGATION SYSTEM HAS BEEN MADE PENDING FAA ENGINEERING AND FLIGHT TEST IN ACCORDANCE WITH ADVISORY CIRCULAR 20-101B, SECTION \$5a,b,c,.

FINAL APPROVAL OF THE SYSTEM WILL BE HADE AT THIS TIME.

ADDITIONAL SHEETS ARE ATTACHED



### DEPARTMENT OF TRANSPORT

# CERTIFICATE OF AIRWORTHINESS FOR EXPORT



MINISTÈRE DES TRANSPORTS

# CERTIFICAT DE NAVIGABILITÉ POUR EXPORTATION

Number Numéro

LX-12684

The Department of Transport, Canada, having regard to the Reports furnished to it, issues this Certificate of Airwardiness for Topport in respect of the Aircraft/Engine identified below and more particularly described in the type approval and specifications in accordance with the Aeronautics Act, Canada, and the Orders in Cauncil in force thereunder.

Le Ministère des Transports du Canada, prenant connaissance des rapports qui lui ant été saumis, délière le présent certificat de natigabilité pair expartation pour l'aéranef/mateur merfisionné ci-dessaus et plus particulièrement décrit dans l'homologation de type et les spécifications conformément à la Rod sur l'aéranautique du Canada, et les ordanhances du conseil en riqueur de son fait.

For export to: Pour exportation à:	UNITED STATES OF AMERICA	Product is: New   Used   Coppareil: X New   Usagé
	Aircraft Manufactures: Constructeur de l'aéronef: N/A	
	Aircraft Madel: Madèle de l'aircraf:	om visit et en filosofie en
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	Type Approval No.* E-11 No d'homologation de type:	
	Engine Manufactureri Constructeur du mateuri Pratt & Wh	itney Aircraft of Canada Ltd
	Engine Madel: JT15D-1A Madele du mateur:	
	Engine Serial Na.(a): Na(a) de aérie du(dea) mateur(a): PCE-77263	

Exceptions

James Barting Comment

### Remarks: Observations:

Engine meets U.S. Type Certificate Data Sheet No. E25EA and is in condition for safe operation and has been subjected by the manufacturer to a final operational check.

Dated at Montreal, Quebec

This 5TH Day of JANUARY 81

\*Copies of the applicable Type Approval are available on request from the Department of Transport, Ottavia, K1A 0N8, 20-0037 (7-74)

Of Minister of Transport - Ministre des Transports

Captes d'hamalagation de type sant disponibles sur demande au Ministère des Transports, Ottawa, K1A 078 Canada. US AA20 (80)



### DEPARTMENT OF TRANSPORT

# CERTIFICATE OF AIRWORTHINESS FOR EXPORT

Number



### MINISTÈRE DES TRANSPORTS

# CERTIFICAT DE NAVIGABILITÉ POUR EXPORTATION

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Le Ministère des Transports du Canada, prenant connaissance des rapports qui lui ant été saumes, déficie le présent certificat de novigabilité paux exportation pour l'avianes/mateur mentianné ci-dessauc et pl., porticulisérment décrit dans l'hamalagation de type et les apécifications canformement à la Lai sur l'avianautique du Canada, et les aedonnances du canavis en diqueur de son fait.

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	Aircraft Serial Na. Na de séne de l'as anof:	N/A			-
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	Engine Manufacturer: Canstructeur du mateur:	Pratt & Whit	ney Aircra	aft of Can	ada Ltd
	Engine Model: Modèle du moleur:	JT15D-1A			
	Engine Serial Na.(s): Na(s) de série du(des) mateur(s):	PCE-77129		•	•
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Exceptions:

### Remarks: Observations:

The engine covered by this Certificate has been examined and found to comply with U.S. Federal Aviation Regulations, Part 33, Amendment 1 effective February 1st, 1965; Amendment 2 effective July 6, 1966; and Amendment 3 effective April 3, 1967; and Advisory Circulars AC 33-1A and 33-3.

Daté à Montreal, Quebec

Thia Day of Pa 30th Jan de July 49 79

\*Capies of the applicable Type Approval are available on request from the Department of Transport, Ottavia, K1A 0NS, Canada Minister of Transport - Ministrates Transports

• Capies d'hamalagation de type sant disponibles sur demande au Ministère des Transports, Ottawa, K1A 0718 Canada