#### ¿~UNITELASTATES OF AMERICA

#### DEPARTMENT OF TRANSPORTATION-FEDERAL AVIATION DINISTRATION DARD AIRWORTHINESS CERT

1 NATIONALITY AND REGISTRATION MARKS 12. MANUFACTURER AND MODELS

3-AIRCRAFT SERIAL NUMBER

4. CATEGORY ...

**H-323** 

Exceptions:

Standard

5. AUTHORITY AND BASIS FOR ISSUANCE

This airworthiness certificate is issued pursuant to the redetal Aviation Act of 1938 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 that 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,

None

DESIGNATION NUMBER

6. TERMS AND CONDITIONS Unless sooner surrendered, suspended, revoked, on a termination date is otherwise established by the Administrator,

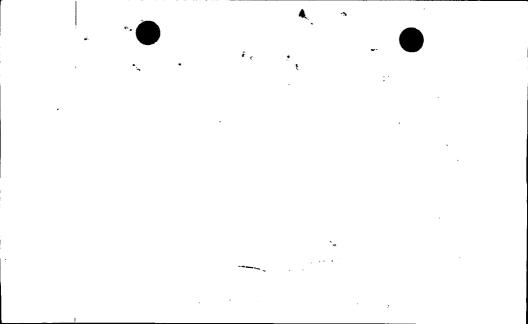
this airworthiness certificate is effective) as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Paris 21, 43, and 91 of the Federal Aviation, Regulations, as appropriate, and the aircraft is registered in the United States.

DATE OF ISSUANCE' m lacement

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 ACCORD-ANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.

FAA FORM 8100-2 (7-67) FORMERLY FAA FORM 1362

GPO: 1967--O-270 931



United States of America FEDERAL AVIATION AGENCY

### CERTIFICATE OF AIRWORTH!NESS

REGISTRATION MARKS

2. AIRCRAFT AIRWORTHINESS CLASSIFICATION

#### Standard

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4. This Certificate will remain in effect as long as the aircr
with Part 43 of the Civil Air Regulations unless surrence and the factorial reveal of termination date is otherwise established by the Administration of the Factorial Agency.

6. DATE 6

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of this Certificate is punishable by a time of net exceeding \$1,000 and the company of the compa

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FEDERA VIATION AGENCY FORM APPROVED PPLICATION FC AIRWORTHINESS CERTIFICATE BUDGET BUREAU NO. 04-R058.1 INSTRUCTIONS: Please print or type. Submit this form, original only, to an authorized Federal Aviation Agency Representa-Use attachments or extra sheets as necessary. AIRCRAFT IDENTIFICATION NO. 3. AIRCRAFT MODEL 2. AIRCRAFT MAKE G21A AIRCRAFT DESCRIPTION 323 Grumman 4. AIRCRAFT SERIAL NUMBER 6. ENGINE MODEL 5. ENGINE MAKE Pratt & Whitney R985 1191 7. NUMBER OF ENGINES 8. PROPELLER MAKE 9. PROPELLER MODEL HCB3Z30-2E Two Hartzell 1. APPLICATION IS HEREBY MADE FOR: A. ORIGINAL ISSUANCE OF CERTIFICATE (AIRCRAFT NEW USED IMPORT) (CAR 1) B. X AMENDMENT OF CURRENT CERTIFICATE (CAR 1.62) MULTIPLE CERTIFICATE (REF. CAR 1 AND 8) D. OTHER AIRWORTHINESS CLASSIFICATION (Check appropriate item(s)) It is requested that an Airworthiness Certificate be issued to permit operation of the above described aircraft in the following classification(s): REQUESTED A. X STANDARD (NORMAL, UTILITY, ACROBATIC, TRANSPORT CATEGORIES) (REF. CAR 1) B. LIMITED (REF. CAR 9) C. RESTRICTED (REF. CAR 8) (Check operation(s) to be conducted) CERTIFICATION . (1) AGRICULTURAL AND PEST CONTROL (4) PATRÓLLING (2) AERIAL ADVERTISING (5) FOREST AND WILDLIFE CONSERVATION AERIAL SURVEYING (6) WEATHER CONTROL OTHER (Specify) D. EXPERIMENTAL (REF. CAR 1) (Check operation(s) to be conducted) (3) EXHIBITION (1) AMATEUR-BUILT (2) EXPERIMENT (RESEARCH AND DEVELOPMENT) RACING TO SHOW COMPLIANCE WITH CAR E. OTHER) (Specify) 3. HAS THE APPLICANT PREVIOUSLY BEEN DENIED AN AIRWORTHINESS CERTIFICATE FOR THIS AIRCRAFT? YES (Explain) VERIFICATION AGENCY
VERIFICATION

Tot applicable to newly 1. IN ACCORDANCE WITH CAR 1.67(d) THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY: A. | AIRCRAFT MANUFACTURER (Name of Firm) B. CERTIFICATED DOMESTIC REPAIR STATION, CERTIFICATE NO. CERTIFICATED AIR CARRIER, CERTIFICATE NO. A & P 240907 D. X CERTIFICATED MECHANIC (Inspection Authorization) NO. DATE Supt. of Maintenance 7-19-63 I hereby certify that the aircraft described above has been inspected and is airworthy and eligible for the classifica-tion(s) requested. I further certify that I am the registered owner (or his agent) of this aircraft which is registered\* with the Federal Aviation Agency, as required by the Federal Aviation Act of 1958 and the applicable Federal Aviation Regulations and Regulations of the Administrator and that the following evidence of registration is displayed in the aircraft. (Check and complete appropriate item(s): this includes completion of items 1 and 2 on the reverse side of this form.) October 4, 1955 1. K CERTIFICATE OF REGISTRATION, FAA FORM 500 (PART A) DATE OF ISSUE \_\_\_\_ APPLICATION FOR REGISTRATION, FAA FORM 500 (PART B). FAA FORM 500 FORWARDED TO FAA AIRCRAFT REGISTRATION BRANCH ON (Date) 3. DEALER'S AIRCRAFT REGISTRATION CERTIFICATE, FAA FORM 1707 (Expiration date). 4. REGISTERED OWNER'S FULL NAME AND PERMANENT, MAILING ADDRESS (No., Street, City, Zone and State) Avalon Air Transport, Inc. 3365 Lakewood Boulevard Long Beach 8, California 90808

OWNER'S CERTIFICATION

*In order to be eligible for registration an aircraft must be	5. SIGNATURE OF REG	ISTERED OWNER OR AUTHORIZED AGENT
owned by a citizen of the United States as defined by	6. DATE 9-19-10-3	Just Maint
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8. ATTACHMENTS (Check which)

A. FAA FORM 337

C. WEIGHT AND BALANCE REPORT

FAA FORM 317 D. DATA DRAWINGS, PHOTOGRAPHS, ETC. (List separately) -

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

Sunger Survey No. 04-2060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION
SO-FSDO-61

(NSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) or instructions and disposition of this form.

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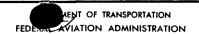
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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

- 8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)
  - 1. Right side first stringer above floor sta. 26 to 29 replaced complete Installed new casting stringer to sta. 26 and to sta. 29.
  - 2. Right side first angle above floor sta. 26 to sta. 28 replaced.
  - 3. Right side second stringer above floor sta. 26 to 29 replaced complete Installed new casting stringer to sta. 26 and to sta. 29.
  - 4. Right side second stringer above floor sta. 26 to 28 replaced.
  - 5. Right side third stringer above floor sta. 26 to 29 replaced complete Installed new casting stringer to sta. 26 and stringer to sta. 29.
  - 6. Right side fourth stringer above floor sta. 26 to 29 replaced complete Installed new casting stringer to sta. 26 and stringer to sta. 29.
  - 7. Replaced vertical frame angle right sta. 27, splice between first stringer above floor and first angle, splice in accordance with AC 43:13, chapter 2, section 3, fig. 2.25, par. 100E and subsequent, to center of cabin.
  - 8. Left side first stringer above floor replaced casting stringer to sta. 29.
  - 9. Left side second angle above floor replaced from sta. 26 to 27 and to sta. 28.
  - 10.Left side splice vertical frame angle sta. 27 between second angle above floor and third stringer and between third stringer and fourth stringer, splice 'in accordance with AC 43:13, chapter 2, section 3, fig. 2.25, par. 100 E, and subsequent par.
  - 11.All-stringers-and angles painted with zinc chromate primer; bolts and nuts painted with par-al-ketone.

-NOTHING FOLLOWS

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Form Approved Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION 50-FSDO-61

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

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

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1. AIRCRAFT	SERIAL NO.	1191			NATIONALI	TY AND REGIST	TRATION MA	RK				
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FAA Form 3	<b>337</b> (7-67)						1	(1	8320)			

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DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

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

pproved Bureau	04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION SO-FSDO-6/

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attachma	ents hereto bave b	een made in accord	iance wi	th the requireme	nts of Part 4	is of the U.S.	Federal Avia	tion Regi	lations		
and that	t the information	furnished herein is	true and	d correct to the	best of my k	nowledge.					
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# **NOLICE**

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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Form Approved Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION SO-FSDO-61

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

				e all entries. See I	FAR 4	3.9, FAR 43 Appe	endix B, and	AC 43.9-1 (or s	subsequent r	evision th	nereof)	
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				n registration certific	ate)	•	ADDRESS (As shown on registration certificate)					
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BY	1	FLT. STANDARDS ECTOR		MANUFACTURER	X	INSPECTION AUTHORI	ZATION	OTHER (Specify) IA-5285	3 <b>-4I</b>			
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DATE OF		ROVAL OR		CERTIFICATE OR DESIGNATION NO	).	SIGNATURE OF		INDIVIDUAL		1.0		

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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.)

Engine received this station for overhauld.

Engine completely dissasembly. All parts and components cloaned.

Perform inspection of all parts and components per P&W, Alecraft Engine hauld Manual. All steel parts Magnafluxed. Aluminum parts, troughly and Zyglo checked. Check crankshaft per P&W crankshaft spect and through chart. Install overhauld magnetos by Caribbean Airmotive, Inc. Engine assembled per P&W, Overhauld Instructions.

Test Cell RUM UP proved Satisfactory as per P&W, rum up procedure.

Time since Mayor rum up test 4Hrs.

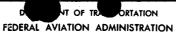
The following P&W, Service Bulletins are compled at this time.

1710-1703-1718-1758-1783-1000-1175-1183-1710.

C/W following AD, 57-5-4, Crankshaft rewerk, 66-I4-4, Cam reduction. 68-9-I, Flyweight and linners, 76-20-01, Cylds, head press tost.

NOTHING

FOLLOWS.





Form Approved Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION SJU FSIDO

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

INSTRUCT for instructi	TIONS: Print or ons and disposit	type all entries. S	ee FAR	43.9,	FAR 43 Appe	endix B, and	AC 43.9-1 (or	subsequent i	revision th	ereof)	
1 AUDCDAST	MAKE	GRUMMAN				MODEL	G-21A				
1. AIRCRAFT	SERIAL NO.	1191	,			NATIONALI'	TY AND REGIS	TRATION MA	ARK		
2. OWNER	NAME (As show	n on registration cer	tificate)			ADDRESS (As shown on registration certificate) SEAPLANE RAMP, VETERANS DRIVE					
2. UWNER	ANTILLES	AIR BOATS, I		·		ST. THO	MAS, U.S.V				
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PROPELLER								· .			
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	MANUFACTURER										
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D. I certify attachme	that the repair,	and/or alteration been made in acco furnished herein i	rdance v	with 1	the requiremen	nts of Part 4	3 of the U.S. F	described or ederal Aviat	the reve	rse or lations	
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		7	. APPRO	VAL I	FOR RETURN TO	SERVICE		/	٠.		
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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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- Lebom duh	perlier i	craft nationality and registration mark and date work completed.)  The installation of one (1) each left and right, Hartzell Properopellers Inc., STX SAL-S2, Drawing #D1860.  Flight Manual modified for this installation.
- Lebom duh	perlier i	The installation of one (1) each left and right, Hartzell Proper # HC-B3Z30-ZE. Found install on this aircraft in accordance Propellers Inc., STX SA1-52, Drawing #D1860. Flight Manual modified for this installation.

TIONAL SHEETS ARE ATTACHED

PRINTING OFFICE : 1967 OF - 272-085

# FEDERAL AVIATION ADMINISTRATION

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

Form pproved Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATIONSJU FSDO 7-5-61

INSTRUCT for instruction	IONS: Print or typons and disposition	e all entries. See n of this form.	FAR -	43.9,	FAR 43 Appe	endix B, and	AC 43.9-1 (or	subsequent	revision t	hereof)
	MAKE				<del>.</del>	MODEL				
1. AIRCRAFT		GRUMMAN					G-21A			
i. Aikekai	SERIAL NO.					NATIONALI	TY AND REGIST	TRATION M	ARK	
		1191		N 323 \						
	NAME (As shown a	n registration certifi	cate)	·						
2. OWNER	BARIBE	BEAN FLYING E	CAT						INC.,	•
	<u> </u>	<del></del>		COD	FAA USE ON		iomas, u.s.	V.I.		
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attachme	that the repair and nts hereto have bee the information fu	en made in accorda	ince v	vith tl	he requiremen	nts of Part 4	3 of the U.S. F	ederal Avia	n the reve	erse or lations
DATE				SIGN	NATURE OF	AUTHORIZED	INDIVIDUAL			
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DATE OF APP	ROVAL OR -	CERTIFICATE OR DESIGNATION NO I.A. 161	<b>D</b> .	SIGN			INDIVIDUAL	Vie	llei	अ <u>८४. हर्</u>
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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.)

prake assemblies (2) Hayes Model # C3-56A 30K7 together with

TYPE VII.

Installed Cleveland Alrcraft Products, Inc., (2) Brake Assemblies Model #30-91 together with (2) Wheel Assemblies Model #40-127 32X8.8

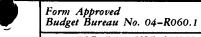
Weight Removed = 80 lbs. @ ARM 10" = 
$$\frac{1000}{1000}$$

SLC # SV CF Decemper 3' 1975

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"NOLHING BOITOMS"

### NT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION



FOR FAA USE ONLY

OFFICE IDENTIFICATION IN FSDC

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

IN	STRUCT instructi	IONS: Print or tools and disposit	type all entries. See ion of this form.	FAR	43.9, FAR 4	3 Appendix B, and	AC 43.9-1 (or	subsequent	revision tl	hereof)
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2 0	WNER	NAME (As showr	GRUMMAN  GRIAL NO.  1191  ANAIONALITY AND REGISTRATION MARK U.S.A. N 323  AND (As shown on registration certificate)  SERPLAINE RAMP, VETERRENS DRIVE  ST. THOMAS, V.I. 00801  3. FOR FAA USE ONLY  4. UNIT IDENTIFICATION  MARKE  MODEL  SERIAL NO.							
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				6.	CONFORMITY	STATEMENT				l ·
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	attachme	nts hereto have l	peen made in accorda	ance v	with the requ	uirements of Part 4	i3 of the U.S. I	described or Federal Aviat	the revo	erse or lations
DATE		· · · · · · · · · · · · · · · · · · ·			SIGNATUR	E OF AUTHORIZED	INDIVIDUAL			
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		-20-76	_	-	1	cough 1	1: XXX	7	,	

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 main landing gear wheels (2) Hayes Model #G3-56A 30x7 together

Installed Cleveland Aircraft Products, Inc. (2) Brake Assemblies Model #30-91 together with (2) Wheel Assemblies Model #40-127 32X8,8 TypeVII.

Weight Removed = 80 lb0. @ ARM l0" = 800 = .8 i.u.

Weight Added = 119 lbs. @ ARM low = 1190 = 1.19 I.u.  $\frac{1000}{1000}$ 

Weight Change = +39 lbs. Moment Change = .39 I.U.

DKMC #30-61

KEE: DEMC #40-ISA

SIG-#-2V\_60 CT DECEMBER 3'1975

NOTHING FOLLOWS

### ENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

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

Form Approved Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION TU FSDO

IN for	STRUCT instructi	CIONS: Print of ons and dispo	or ty sitio	pe all entries. S n of this form.	ee FAR	43.9,	FAR 43 App	endix B, and	AC 43.9-1 (or	subsequent	revision t	nereof)
		MAKE						MODEL		· · · · · · · · · · · · · · · · · · ·	<del></del>	
3 A	RCRAFT		RUM	(AN					G- 21 A			
		SERIAL NO.			•			NATIONALI	ITY AND REGIS	TRATION MA	ARK	
								N 32	3 U.S.A.			
	MAIFE	NAME (As sho	own (	on registration cer	ificate)							
2. 0	WNEK						<b>*</b>				is driv	Æ
		ANTITA	ES	ATR POATE,		3 FO	R FAA IISE ON		PROMAS, V.	r* 0080Y		
						:	N THA USE OF					
				4.	UNIT ID	ENTIF	ICATION				5.	TYPE
	TINU		M.	AKE			MODEL		SERIAL	NO.	REPAIR	ALTER- ATION
AIRF	RAME	•••	***	•••••	(As de	scribe	d in item 1 ak	oove)	•••••	••	,	.,
		<del> </del>			1	Т			T			X
POW	ERPLANT		•		<b>.</b> .			•			į	
							«متامستند ، شکرریت	و در معد دستان میکان			و دست .	
PROF	PELLER			•		•		i, .				
		TYPE			+							
A DDI	IANCE				<u></u>					*		
A176	ANCE	MANUFACTURER										
					6.	CONF	ORMITY STATE	MENT				
	A. /	AGENCY'S NA	ME	AND ADDRESS		ļ				C. CER	TIFICATE	NO.
				والمحتج والإنتساء والمالي	(.	×	<del> ,</del>	<del></del>				
		.,					<b></b>			, 200 1	725021	
	SAN J	uan, poer	TO	RICO					•	Wort, T	136537	
	attachme	nts hereto hav	e be	en made in accor	dance v	with 1	unit(s) ident the requireme	rified in item nts of Part 4	13 of the U.S. I	described or rederal Aviat	the reve ion Regu	erse or lations
DATE						SIG	NATURE, OF	AUTHORIZED	INDIVIDUAL	10		
	JA	NUARY 14.	197	6	•	<u> </u>	Abelo	erdo	Lamer	Ka	mo	W.
				7	APPRO	VAL	ØR RETURN T	O SERVICE	<u> </u>			** **
Pur the	suant to Administ	the authority trator of the F	giver edera	n persons specifie Il Aviation Admir	d below	v, the	unit identifie		REJECTED	n the manne	r prescrib	ed by
SERIAL NO.  SERIAL NO.  1101  NATIONALITY AND REGISTRATION MARK N 2/3 ILS.A.  ADDRESS (As shown on registration certificate)  SEA PLANE RAIPP, VISTERALS DRIVE SEA PL												
						OF OF	TRANSPORT INSP AIRCRAFT	ECTOR		1		
	TION			DESIGNATION	NO. '	SIG	\ 1			on		•
	4	1 A7G		1 - 34 73300	Ω	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.

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

prackets.

drawings EL - 0104 dated 5/7/65 and EL - 0104-1 dated 6/15/65.

8/31/65.

p/n 404-185901 - lower, p/n 185903 installed under S.T.C. # SA 551SW dated

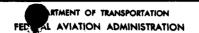
p/n 404-185901 - lower, p/n 185903 installed under S.T.C. # SA 551SW dated

Weight and Balance correction entered in air craft log book,

NOLHING LOTTOMS

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7.02	520
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592	977
792	572
792	242
4	Chief
25/2/6	Revd
ucs/13-00s1-0	)S <b>∀</b> `

U.S. GOYERNMENT PRINTING OFFICE : 1967 OF-272-085





Form Approved Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION ASO-FSDO-6/

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

INSTI for ins	RUCT	IONS: Print or ons and disposi	type all entries. See tion of this form.	FAR 4	13.9,	FAR 43 Appe	endix B, and	AC 43.9-1 (or	subsequent r	evision th	nereof)
	_	MAKE GF	RUMMAN				MODEL	G21A		,	
1. AIRCR	RAFT	SERIAL NO.	1191				NATIONALI	TY AND REGIST	TRATION MA	RK	
		NAME (As show	n on registration certific	cate)			ADDRESS (	As shown on regine Ramp, Ve	stration certifi	cate)	
2. OWNE	ER	ANTILLES	S AIR BOATS, IN	c.				omas, V. I.		1146	
				3	. F0	R FAA USE ON	LY				
								-			
		, ,									
			4. UN	IT IDE	NTIF	ICATION		<u> </u>		5 1	TYPE
UNIT	r		MAKE			MODEL		SERIAL	ю.	REPAIR	ALTER- ATION
AIRFRAM	AE	••••	••••••••••••••••••••••••••••••••••••••	As des	cribe	d in item 1 ab	ove)	************	*		х
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POWERP	LANT				•						,
PROPELL	ER					X	on and an analysis of the second sec	1 ~ Y		,	
		TYPE			· /	• • • • • •				•	
APPLIAN	ICE :	MANUFACTURER		•			, , , , , , , , , , , , , , , , , , , ,			. •	
		7	- ,	6. (	ONF	ORMITY STATEM		<u> </u>	•	•	
			AE AND ADDRESS		42		D OF AGE	· · · · · · · · · · · · · · · · · · ·	C. CER	TIFICATE	NO.
		Pinheiro	Boats, Inc.			U.S. CERTIFICAT			A 04 .	10431	
			eterans Drive	•		CERTIFICATED R			Sec. 1		
	_	mas, V. I.	_			MANUFACTURER	t	, <u>1</u> ,	و: ۵۰۰۰		•
atta	ıchmer	its hereto have	and/or alteration ma been made in accorda furnished herein is t	ince w	vith :	the requiremen	nts of Part	13 of the U.S. I	described on ederal Aviat	the reve ion Regu	erse or lations
DATE				•	SIG	NATURE OF	AUTHORIZED	INDIVIDUAL			
, ,			tana yang sagara			٠. ر	thet	V Junho	100		
						FOR RETURN TO			4.		
Pursua the Ad	nt to Iminist	the authority gi	ven persons specified leral Aviation Adminis	below tration	, the	unit identifie d is \( \bigcap \text{APPF}	d in item 4 ROVED	REJECTED	n the manne	r prescrib	ed by
BY		FLT. STANDARDS BCTOR	MANUFACTURER	*		PECTION AUTHORI		OTHER (Specify)	•	, •	
	FAA	DESIGNEE	REPAIR STATION		OF OF	IADIAN DEPARTMI TRANSPORT INSPI AIRCRAFT	ECTOR		·		
DATE OF	)N	ROVAL OR -27-73	CERTIFICATE OR DESIGNATION NO 1A1496292	<b>D</b> .	SIG	NATURE OF A	authorize	C INDIVIDUAL			

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.)

provided as follows:

1) In order to facilitate inspection of rudder and elevator push peen sell cranks and Bell crank attach fittings an inspection access door has been provided as follows:

A. One hold made on each side of the hull between hull stations nine and ten, l6.5 inches above the chine, l4.5 inches forward of each main gear wheel well. All corners 5/16" radius.

B. One doublar of SO24T3 X.050 X 10 3/4" X 9 3/4" riveted on the inside of the hole to restore skin strength at the location of the access hole. Double row of rivets used with 1" spacing as in skin joints of sirframe.

C. A hole of 5 L/S" vertical dimension and 6.5" Longitudinal dimension has been cut in the doubler and provides actual inspection facilities as mentioned above.

D. # 8 X 32 Gang-nut channel with 3/4" spacing provides the attachment of water tight cover constructed in the same manner as water tight doors on floats and large water tight door on wheel well on R/H side of hull. Cover installed on Sealant surface and torqued in same manner as wheel well inspection door.

E. All work done in accordance with Grumman Structure and Repair Manual May. Aer. 01-85V-3, Page 196, Figure 110 and AC 43-13-1, Chapter 2, Section 3, Paragraphs 4 thru 8.

NOTHING FOLLOWS.

# DEPLEMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

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

FAA Form 337 (7-67)

Form Approved Budget Bureau No. 04–R060.1

FOR FAA USE ONLY

(8320)

OFFICE IDENTIFICATION

				oe all entries. See	FAR -	43.9,	FAR 43 Appe	endix B, and	AC 43.9-1 (or	subsequent	revision tl	nereof)
		MAKE						MODEL				· · ·
1. AIR	CRAFT		nımı	nan				G-21				
		SERIAL NO.			```.			NATIONALI'	TY AND REGIS	TRATION M	ARK	
				1191			<u> </u>		N 323			
0 04	MED	NAME (As sho	o nwc	n registration certif	ic <del>at</del> e)				As shown on regi			
2. OW	NEK	Thre	e !	rwelve Cor	p.			St.	.Thomas U	J.S. Vi	rgen	Islan
		<u>!</u>			3	. F0	R FAA USE ON	LY				
	- 4			A 111	JIT IN	ENTIE	ICATION				T	T)(DP
		I		4. 01	111 101	LNIII	ICATION		<u> </u>		3.	TYPE
UI	UNIT MAKE					MODEL		SERIAL	NO.	REPAIR	ALTER- ATION	
AIRFRA	AME (As de				(As des	scribe	d in item 1 ab	ove)	***********	*	х	
	RPLANT	т										
PROPE	LLER					,				•		
		TYPE		*		-						<u> </u>
APPLIA	ANCE	MANUFACTURER		,								
					6.	CONF	DRMITY STATE	AENT	<u> </u>			
	Α. Α	AGENCY'S NA	ME	AND ADDRESS				ID OF AGEI	NCY	C. CER	TIFICATE	NO.
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	284	5 Airpon	rt :	Drive			CERTIFICATED R	EPAIR STATION	<u> </u>		1	
D. I	certify ttachme	nts hereto hav	ir an e bee	d/or alteration men made in accord	ance v	vith 🗀	the requiremen	ified in item nts of Part 4	i3 of the U.S. I	described or Federal Avia	n the reve tion Regu	erse or lations
DATE						SIG	NATURE OF	AUTHORIZED	INDIVIDUAL			
		9-13-72	<u> </u>				_ Ray	Joh C	ullen	: 		
					APPRO	VAL	OR RETURN T	O SERVICE				
Pursi	uant to Administ	the authority trator of the F	given edera	persons specified I Aviation Admini	below stratio	, the n and	unit identifie l isAPPI	d in item 4 ROVED []]	was inspected i REJECTED	n the manne	er prescrib	ed by
ву		FLT. STANDARDS PECTOR		MANUFACTURER	х		A ECTION AUTHORI		OTHER (Specify)			
		DESIGNEE		REPAIR STATION		OF OF	ADIAN DEPARTM FRANSPORT INSP AIRCRAFT	ECTOR				
DATE (	OF APP	80130R 9-13-72		CERTIFICATE OR DESIGNATION N	0	SIG	NATURE OF	AUTHORIZED	INDIVIDUAL			
		13		A A . 120 W A		A	ワイリイリー	Pull	V		<	70_

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.

```
END.
                                    All work performed per AC-43-13-1
                                                   .besibens Latem IIA
                      Replaced skin on vert. stab. above hor. stab.
                                          Replaced stabelizer struts.
                                              Replaced floats strutts.
                                    Aft skin of bow ( top ) replaced.
                                Skin replaced aft of step left side.
                     Skin replaced on bow aft of acelwell.
                  Skin below cabin windows left and right replaced.
           4 feet of sparcap replaced on centersextion aft. upper.
                    6 feet x 4 feet of centersextion skin replaced.
                                              installed on both ends.
A Feet of sparcap replaced,6 feet from wing connextion, 2 splices
                                              installed on both ends.
Six feet of sparcap replaced, 4 feet wing connextion; 2 splices
                                        Wing attachs blocks replaced.
                             MOTI
                                Following parts replaced.
                         craft nationality and registration mark and date work completed.)
Identify with air-
             8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets.
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235



# DEPENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

Form Approved Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION

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

INSTRUCT for instructi	TONS: Print or type all entries. See ons and disposition of this form.	FAR 4	<b>13.9</b> ,	FAR 43 Appendix B, a	and	AC 43.9-1 (or	subsequent 1	evision th	nereof)		
	MAKE			MODEL							
1. AIRCRAFT	Grumman				G_	21 A					
I. AIKUKAFI	SERIAL NO.			NATION	ĂLI	TY AND REGIST	RATION MA	RK			
	1191			X.	M& N-323						
	NAME (As shown on registration certification certification)	cate)		ADDRES	S (/	As shown on regis	tration certifi	cate)			
2. OWNER	Three Twelve Corporation	n		St. T	'ho	mas, U.S.	Virgin I	slands			
		3	. F0	R FAA USE ONLY			·		•		
	-				7	· -	i.				
	4. UN	IT IDE	NTIF	ICATION				5 1	ГҮРЕ		
UNIT	MAKE			MODEL		SERIAL	NO.	REPAIR	ALTER- ATION		
AIRFRAME	•••••••••••••••••••••••••••••••••••••••	As des	cribe	ed in item 1 above)	***	***************************************	₩		X		
POWERPLANT		-		-							
PROPELLER											
	ТҮРЕ					()					
APPLIANCE	MANUFACTURER										
		6. (	CONF	ORMITY STATEMENT							
Α.	AGENCY'S NAME AND ADDRESS			B. KIND OF A	GE	NCY	C. CER	TIFICATE	NO.		
			X	U.S. CERTIFICATED MECHA	MIC						
Ralph	Cullen			FOREIGN CERTIFICATED ME	ECH.	ANIC	A & P 1	L28140			
-	Airport Dribe., Torrance,	Ca.		CERTIFICATED REPAIR STAT	101	· · · · · · · · · · · · · · · · · · ·					
attachme	that the repair and/or alteration mants hereto have been made in accordance the information furnished herein is to	ince v	vith	the requirements of Pa	rt 4	i3 of the U.S. F					
DATE a/1	1/72		SIG	NATURE OF AUTHOR	ZEC	INDIVIDUAL	·	_			
.7/1	<u> </u>	APPRO	VAL	Malph Co For refurn to service	<u>((</u> E	llu_					
Pursuant to the Adminis	the authority given persons specified trator of the Federal Aviation Adminis	below	, the	unit identified in item	4	was inspected in	n the manne	r prescrib	ed by		
	FLT. STANDARDS MANUFACTURER	v		PECTION AUTHORIZATION	_	OTHER (Specify)					

CANADIAN DEPARTMENT
OF TRANSPORT INSPECTOR

SIGNATURE OF AUTHORIZED INDIVIDUAL

OF AIRCRAFT

9/11/72 FAA Form 337 (7-67)

DATE OF APPROVAL OR

INSPECTOR

FAA DESIGNEE

REPAIR STATION

CERTIFICATE OR

DESIGNATION NO.

P 1128140IA

BY

REJECTION

16 OCT 1972

(8320)

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

区班目 These units installed per AC-43-13-2, Chapter 2, Pages 4 & 5, Fig. 2.1-2.2. Installed Bendix ADF TISE under VHF Redto in instrument panel. Install Genave Alpha 200 - VHF Transciver in center of instrument panel. craft nationality and registration mark and date work completed.) 8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with air-

### AVIATION AGENCY

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

Form Approved Budget Bureau No. 04-R060.1

FOR FAA USE REG. WE OFFICE IDENTIFICATIONADO-5

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INSTR for inst	UCTI	ONS: Print o	r typ sition	e all entries. See	FAR 4	43.9,	FAR 43 App	endix B, and	d AC 43.9-1	(or subsequent	evision th	nereof)
		MAKE	Gr	umnan				MODEL	G-21A			-
1. AIRCRA	AFT	SERIAL NO.	11	.91				NATIONAL N3		EGISTRATION MA	ARK <sub>,</sub>	
2. OWNE	- 1			n registration certifi		ıe.	·	ADDRESS 4100	(As shown or Donald	registration certif Douglas I Calif. 90	rive	?, I
	<u> </u>				3	. FOR	FAA USE O					
								·		e.		
				4. UN	IIT IDE	ENTIFI	CATION				5.	TYPE '
UNIT		MAKE MOD					MODEL		s	ERIAL NO.	REPAIR	ALTER- ATION
AIRÈRAM	AE (As described in item 1 ab					bove)	••••••	•••••		X		
POWERPL	LANT				Terifled by Operator #7							
PROPELLE	R			•			- Cities	4	erified o			,
		TYPE .							<u> </u>			-
APPLIANO	CE	MANUFACTURER							•			
	!				6.	CONFC	RMITY STATI				<u>.                                    </u>	1
•	A. A	GENCY'S NA	ME	AND ADDRESS				ND OF AG		Ç. CER	TIFICATE	NO,
4100	Don		gla	s, Inc. as Drive ., 90808		ж	FOREIGN CERT	IFICATED MECI	HANIC	4525		•
attac	chmen	ts hereto hav	e be	d/or alteration made in accordernished herein is	ance v	with t	he requirem	ents of Part	43 of the l	U.S. Federal Avias	n the rev	erse or ilations
DATE	aly	27, 196	7			SIG	NATURE OF	AUTHORIZE	D INDIVIDU			
							OR RETURN					
				persons specified al Aviation Agenc					4 was inspe REJECTED	cted in the mann	er prescri	ibed by
ВҮ	1	ELT. STANDARDS		MANUFACTURER			ECTION AUTHO		OTHER (Spec	cify)		
	FAA	DESIGNEE	x	REPAIR STATION		OF 1	ADIAN DEPARTA TRANSPORT INS AIRCRAFT	SPECTOR				
REJECTIO	ATE OF APPROVAL OR EJECTION  July 26, 1967  CERTIFICATE OR DESIGNATION NO. 4525					SIGI	NATURE OF	AUTHORIZI	ED INDIVID	UAL	-1 1·	

July 26, 1967

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

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

- Remove MN-62 ADF radio receiver system and related components
- Install King K-80 ADF radio receiver system and related components
- Weight and balance computations:

129998.42	. 55*03	ST*1069	
SI.9-	0.8-	η <b>ι*</b> Ι	Related wiring, loop transmission
+0°08 00°€0T~	58.0	69 <b>.</b> £	Installed King K-80 ADF Loop Antenna
00°055	0.22-	0.01-	Miscellancous wiring, loop transmission esple ete.
283.50	0.53-	5°4=	* ADF Janetion Box, relays ets.
27.00	0.75 <del>-</del>	0°I-	TotasibnI AGA "
00°48 <del>1-</del>	0.8£.	O'II-	6E-MM EnnetnA gool WdA "
05*85	0°EI#	5.4-	" ADF Control Head
1272,00	0°901-	-15°0	" Inverter 12123A BPD
05.7864	0.301-	0°८ <del>\</del> ተ	Removed ADF receiver MM-62A
123291.00	50.6	0.7868	Aireraft empty wt. (Form 337 dated 2/20/64)

See approved loading schedule for loading information

□ ADDITIONAL SHEETS ARE ATTACHED

# FEDERA AVIATION 2 SENCE 34 28 JUN 29 'SE

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

Form Approved
Budget Bureau No. 04-R060.1

FOR FAA USE ONLY WE-

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.

ior instruc	tions and disposition	i or this form.								
	MAKE GRUMN					MODEL G	-21A			
1. AIRCRAFT	SERIAL NO. 119	)1				NATIONALII N-3	Y AND REGIST	TRATION MA	RK	
		n registration certific	cate)				s shown on regis	stration certifi	cate)	
2. OWNER		AIR LINES				3365 L	akewood	Blve.	•	
					R FAA USE ON		each, Ca	III.		
	<u></u>			. 10	K FAA USE UN	LI				
		. ·						•••		
	•					· 7 . 9 PQ . 5 7	्र वि जालीज्य न	<b>43</b>		
	· · · · · · · · · · · · · · · · · · ·	4. UN	IT IDE	NTIF	ICATION				5. 1	YPE
UNIT	W	AKE			MODEL		SERIAL	NO.	REPAIR	ALTER- ATION
AIRFŖAĶE	•••••	······································	As des	cribe	ed in item 1 ab	oove) ******	•••••	••	x	
POWERPLAN	π									
PROPELLER			,							à
	TYPE		•						,	
APPLIANCE			·	į				,		
	MANUFACTURER	,								
	<del></del>	٠	6. (	CONF	ORMITY STATE	MENT			L	
A.	AGENCY'S NAME	AND ADDRESS				ND OF AGE	NCY	-C-VER	TIFICATE	NO.
Catali	na Airlines	Inc.			U.S. CERTIFICA	TED MECHANIC		DC 3 Se		
3365 L	akewood Blve	1.			FOREIGN CERTI			Grummar		Serie
Long B	each, Calif.	•		X_	CERTIFICATED R			Luscont		
		· · · · · · · · · · · · · · · · · · ·		L	MANUFACTURE			11 1.00	\ <b>E</b> '	
D. I certification and the	y that the repair an nents hereto have be at the information fu	d/or alteration ma en made in accorda irnished herein is t	ide to ince w rue ar	the vith nd c	unit(s)/ident the requireme orrect to the l	tified in item nts of Part A best of my k	1 4 above and 13 of the U.S. I nowledge.	described or Federal Aviat	ion Regu	erse or lations
DATE				SIC	NATURE OF	AÚTHORIZÉD	INDIVIDUAL			
2	8 May 1966				MBU	Mars				
		7. 1	APPRO	VAL '	FOR RETURN T	Ø SERVICE				
Pursuant t	o the authority given istrator of the Feder	n persons specified al Aviation Agency	below and	, the	e unit identific APPROVE	ed in item 4	was inspected EJECTED	in the manne	er prescri	bed by
	AA FLT. STANDARDS ISPECTOR	MANUFACTURER		ļ	PECTION AUTHOR		OTHER (Specify)			
1 1	AA DESIGNEE X	REPAIR STATION		OF OF	IADIAN DEPARTM TRANSPORT INSP AIRCRAFT	PECTOR				
DATE OF A	PPROVAL OR	CERTIFICATE OR	· · · · ·	SIG	NATURE OF	AUTHORIZE	Ces			
_	y 1966	DESIGNATION NO 4525	<i>.</i> .	ا ا	wiret	1/12	icel			
⊂ ∩ 1.7€	y 1,700	1 7/6/		. ~		•/-	•			)

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 air-craft nationality and registration mark and date work completed.)

SUBJECT- Wing Retractable Floats.

Left hand float strut attach point forward doubler and "U" channel stiffiner was replaced. All material was the same as original and anodized before installation. The original rivets AN 470 AD were replaced with AN-3 bolts.

Hight hand strut attach point forward "U" channel was replaced. Material was the same as original and anodized before installation. The original rivets were replaced with AN-3 bolts in lieu of AN470AD-6 returns.

A flush patch 8 inches long and 3 inches wide was heli arc welded on the top aft. leg of the right hand float strut pedestal. The original material was lainless steel. The patch was manufactured from L/8 inch stainless steel material.

Damaged right and left floats and float actuators were replaced.



# AVIATION AGENCY

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

Form Approved W. S. 2 -Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATIONG. WE-

INSTRUCTIONS: Print or type all entries.	See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof)	
for instructions and disposition of this form.	; 	

		MAKE				MODEL				
1 Ai	AIRCRAFT SERIAL NO.  1191					+	-21A	<del></del>		
1. A	KCKAI I	SERIAL NO.				}	TY AND REGIST	TRATION MA	RK	•
						N-32				
		NAME (As shown	on registration ce	rtificate)			s shown on regi		cate)	
2. 0	WNER	Catali	na mir Lines	inc.			Lakewood E			
					. FOR FAA USE ON		Beach, Cal	LII.		
·					. TOK TAN USE ON	<u> </u>				-
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		*								
		·		···					<u> </u>	
				UNIT IDE	ENTIFICATION				5. 1	YPE
ι	TINU		MAKE		MODEL		SERIAL	NO.	REPAIR	ALTER-
										ATION
AIRF	RAME	••••	******	o (As des	scribed in item 1 ab	ove)	•••••	**	•	
									X	
						*" .				
POW	ERPLANT									
							·			
DDQD	<b>.</b>									
PKOP	PROPELLER									
		TYPE	<del>_</del>							
				1						
APPLI	ANCE	MANUFACTURER								1
						•				
				6.	CONFORMITY STATE					
	A. 'A	GENCY'S NAME	AND ADDRESS			ID OF AGE		<del></del>	TIFICATE	
C	atalin	a Air Lines	inc.		U.S. CERTIFICA			1	ted #4	
3	365 48	kewood Blvd	<b>1.</b>	- ;	FOREIGN CERTI			Crumman		
Ĭ.	ong Be	ach, Califo	rnia	•	MANUFACTURE			Luscombe		ries
<u>.                                    </u>	T			1 2	<del></del>					
	attachmei	nts hereto have b	een made in acco	ordance v	the unit(s) ident with the requireme	nts of Part 4	3 of the U.S. I	described of Federal Aviat	i the reve ion Regu	rse or lations
:	and that	the information	furnished herein	is true a	nd correct to the l		<u> </u>			
DATE					SIGNATURE OF	AUTHORIZEÓ	INDIVIDUAL	•		
	_ 26 J	anuary 1966	5		Mark	1/-				i
		<u>., </u>		7 40000	1/1000	1/WM	7	<del> </del>		
	<del></del> -			7. APPRO	<del></del>			•		
the	Suant to Administ	tne authority giver trator of the Fed	en persons specification Age	ncy and	, the unit/identifie is X APPROVE	a in item 4 D RE	was inspected in	in the manne	er prescri	bea by
		FLT. STANDARDS ECTOR	MANUFACTURER		INSPECTION AUTHORI	ZATION	OTHER (Specify)		Ž.	
BY	FAA	DESIGNEE	REPAIR STATION		CANADIAN DEPARTM OF TRANSPORT INSP OF AIRCRAFT					۰
DATE	OF APP	ROVAL OR	CERTIFICATE C		SIGNATURE OF			5 F		
REJEC	TION 26 Ja	nuary 1966	DESIGNATION 4525	NO.	Evuitt	- Hich	٠, ١			
	~~ <b>~</b> a,	mera Tago	±525		Cours	Juli	~ <u> </u>			

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

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

main landing gear wells forward. replaced five feet of chine strip on left and right side of fuselage from the cour cross stringers replaced under nose baggage compartment floor.

aft to the hull step. A-optaced chine strip on left side of fuselage from the main landing gear wells

Left and wight wings recovered with Ceconite fabric. 5.T.C. 5A4-1137 \* eplaced skin over cockpit .

material thickness was the same as the original. All material was of 2024 43 and anodized before installation. iliadir vieta

Weight change in these repairs, negligible.

J. S. GÖVERNMENT PRINTING OFFICE : 1965 OF-761-748

FEDERAL VIATION AGENCY

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

Budget Bureau No. 04-R060.1							
FOR FAA USE ONLY							
OFFICE IDENTIFICATION							
4.5-CADOMS							

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.

for instruc	ctions and dispo	sitio	n of this form.		,				7	.]	
	MAKE				<u> </u>	MODEL					
1. AIRCRAFT	Grun	mai	n			G-2	21			1	
I. AIRCRAFI	SERIAL NO.		-		,	NATIONALI	TY AND REGIS	TRATION MA	ARK ·		
	1191			i.		N:	323				
	NAME (As sho	own c	on registration certifi	cate)			As shown on regi				
2. OWNER						3365 Lakewood Blvd					
	Cata	<u> 111</u>	<u>na Air Line</u>	s,	Inc.	Lor	ng Beach,	Califo	rnia		
<del></del>					3. FOR FAA USE ON	LY					
	. ,										
									*		
	<i>:</i>										
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					÷ 2			•	/	l	
			4. UN	IIT IDI	ENTIFICATION		<del> </del>	· · · · · · · · · · · · · · · · · · ·	5. 1	TVPE	
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UNIT		M/	AKE		MODEL		SERIAL	NO.	REPAIR	ATION	
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AIRFRAME	· · · · · · · · · · · · · · · · · · ·	****	······································	As des	scríbed in item 1 ab	ove) ******	••••••	•	X		
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DOW/EDD! 4.	_	٠.	•	. ,				. '	·		
POWERPLAN	11]										
	•			-	<del></del>						
PROPELLER	1										
PROFELLER										1	
	TYPE										
APPLIANCE	MANUFACTURER	MANUFACTURER					·				
					4-						
-				6.	CONFORMITY STATEM	AENT				,	
Α.	AGENCY'S NA	ME	AND ADDRESS		B. KIN	ID OF AGE	NCY	C. CER	TIFICATE	NO.	
			_		U.S. CERTIFICA	TED MECHANIC		Limi	ted		
	ina Air I				FOREIGN CERTIF	FICATED MECHA	MIC	# 4525			
	Lakewood				X CERTIFICATED R			DC-3		combe	
Long	Beach, Ca	11:	Cornia		MANUFACTURE	<u> </u>		Gru	aman C		
D. I certif	fy that the repa	ir an	d/or alteration ma en made in accord	ide to	the unit(s) ident	ified in item	4 above and	described or	the reve	erse or	
and the	at the information	on fu	rnished herein is	true a	nd correct to the b	est of my k	nowledge.	cuciai minat	ion regu	actions	
DATE	<del></del>		· · · · · · · · · · · · · · · · · · ·		SIGNATURE OF	AUTHORIZED	)INDIVIDÚAL		- <u>'</u> -		
12	Sept. 65				M	2/1	/ /	1			
					1/10n	E/ [/-	and				
	•		7	<b>APPRO</b>	VAL FOR RETURN TO	SERVICE					
Pursuant t	o the authority istrator of the I	giver eder	n persons specified al Aviation Agency	below and	, the unit identifie is APPROVE	d in item 4	was inspected in	in the mann	er prescrij	bed by	
$\mathcal{L}$	AA FLT. STANDARDS		MANUFACTURER		INSPECTION AUTHORI	ZATION	OTHER (Specify)				
'BY	AA DESIGNEE	x	REPAIR STATION		CANADIAN DEPARTM OF TRANSPORT INSP OF AIRCRAFT		•		<u>.</u>		
	PPROVAL OR		CERTIFICATE OR		SIGNATURE OF	AUTHORIZE	INDIVIDUAL				
REJECTION			DESIGNATION N	<b>o</b> .	Everett		ces				
12 Set	ot. 65		# 4525		- Could	in	~)				

## **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 air-craft nationality and registration mark and date work completed.)

The hull frames were repaired at stations 27, 28 & 29 and the bottom skins on the right and left sides were replaced between stations 26 and 27 aft to station 29: a total of 3 feet.

The keel extrusion was replaced from station 26 aft to station 29.

The material and rivits used were of the original

The hull frame doublers were manufactured from 2024

The hull skins were manufactured from 2024 T-4 .040

material and anodized.

The keel extrusion was anodized before installation.

See attached drawing.

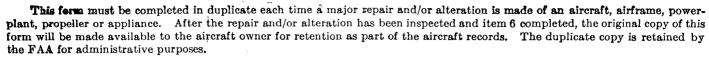
thickness and size.

U.S. GOVERNMENT PRINTING OFFICE: 1965 OF-761-748

Verita by Operator Afteroved.
Budget Bureau No. 04-R000.

,	FEDERAL	AVIATION	AGENCY	•	•	

MAJO	R REP	AIR AND ALTERATIO	ON FORM (	AIRFRAME,	POWE	ERPLANT, PROPEL	LER	OR APP	LIANCE)
1. AIRCRAFT	MAKE Grum	nen	МС	G-21A		SERIAL NO. 1191	NA	ina ytilanoit 28 <b>–</b> 1	REGISTRATION MARK
2. OWNER		First, middle, last) alina Air Lines	inc.	·	33	s (Street and number, otty, as 65 Lakewood Blung Beach, Calif	d.	·	
3. COMPLET CORDAN	CE WIT	Y FOR UNIT REPAIRE H CIVIL AERONAUTIC	ED AND/OR A S MANUAL 1	ALTERED. DE 8.	SCRIE	BE WORK ACCOMPL	ISHE	D ON REV	VERSE IN AC-
UNIT		MAKE		MODEL,		SERIAL NO.	MA	NATURE OF	WORK (Check)  MAJOR ALTERATION
a. AIRFRAME		***************************************	♦ (As described	in item I above) (	*****				x
b. POWERPLAN	г								2
e. PROPELLER				,					
d. APPLIANCE		TYPE AND MANUFACTURER		•					
4. AIRCRAFT WEIGHT AND BALANCE DATA  *AFTER the repairs and/or alterations described below were made.  This item must be completed by repair or alteration agency. However, in the case of a spare component, it will not be completed until such component is installed in an aircraft. At this time, it will be completed by the installing agency, if applicable.									
CATEGOR	Y	EMPTY WEIGHT (Po	unds)*	EMPTY CE	NTER OF	GRAVITY (Inches from datum	)•	USEFU	IL LOAD (Pounds)*
Standard	i	5 <b>985</b>	5 <b>9</b> 8 <b>5</b>			.6	3215		
5. CONFOR	MITY S	TATEMENT (Complete and	check)						
a. AGENCY'S NA	ME AND AI	DDRES\$		b. KIND OF AGE				E. CERTIFICATI	ited
Gatalina Air Lines Inc. 3365 Lakewood Blvd. Long Beach, California				☐ Foreign Certificated Mechanic.  ☐ Certificated Repair Station.  ☐ Certificated Repair Station.  ☐ Certificated Repair Station.					DC3 Series G21 Series 8 Series 25
attachme	nts here	e repair and/or alteration to have been made in a furnished herein is true a	ccordance witl	h the requireme	ents of	Part 18 of the U.S.	id des	cribed on Air Regula	the reverse or ations and that
25 Jan (Date re	uary pair and/o	1965 r alteration completed)			h	(Signature of authorized	/// individ	ual) A4 (P	1407040
Pursuant	to the	RETURN TO SERVICE authority specified below eral Aviation Agency an	the unit ider	olete appropriate item ntified in item	u) 3 was i	inspected in the mann	ner pr	rescribed b	y the Adminis-
1 = "	PROVE	D BY { FAA Design FAA Flight Standards Inspector	nee 🔲 Man t 🖈 Repa		_	nadian Department of ner (Specify)	Trans	sport Inspe	ector of Aircraft
25 Jar (Dat		1965 val or rejection)		(Signal State )	gnature o	fuces of authorized individual; title	OF ide	F/24 ntification nu	0573 mber)
7. TO BE C	OMPLE	TED ONLY BY FAA PE	RSONNEL			17	, EI	EP 09	1965
a. ☐ Forwar	_	engineering comment	☐ See a Reinspected	ttached memor	5	[] Spot Che	-		
_ <b>-</b>	REG.	WE- 4-5	-	/ */ (D)	ate)	p Star		(	(Date)
		mation number)			<u>ر ب</u>	(Signature Flight Standar	ds Insp	pector)	



See CAM 18 for detailed instructions concerning the information to be furnished with this form and instructions concerning its preparation.

#### 8. DESCRIPTION OF WORK ACCOMPLISHED.

SUBJECT Nose baggage door hinge and lock mechanism.

The nose baggage door hinge was repositioned from the right side of the door to the forward side of the door. The lock, a single spring type, was mounted on the aft edge on the center line of the door.

This alteration is identical to the door alteration on Grumman G21A N322 S/N B-73, submitted on form 337 with drawing on January 12, 1965 for Catalina Air Lines Inc., Repair Station # 4525.

weight change on this alteration negigible.

If additional space is needed attach additional sheets bearing aircraft nationality and registration mark and date work completed.

با ۲۶۰۰و د

# FEDERAL AVIATION AGENCE 36



Form approved. Budget Bureau No. 04-R060.

# WARDER AND ALTERATION FORM (AIRFRAME, POWERPLANT, PROPELLER OR APPLIANCE)

MAJUI	K KEP	AIR AND ALIERAII	UN FURM	(AIRFRAME,	POWE	RPLANT, PROPEL	LER O	IR APP	LIANCE)	
1. AIRCRAFT	MAKE	Grumman		MODEL G-21A		SERIAL NO.			D REGISTRATION MARK	
	NAME (	First, middle, last)		4-2-24	ADDRESS	(Street and number, city, zo	ne and St	<u>(</u> (1)	3	
2. OWNER	-	talina Air Li	nes, In	c.	336	5 Lakewood E g Beach 8, 0	lvd.	9	·	
3. COMPLET CORDANG	E ONL	Y FOR UNIT REPAIR	ED AND/OR S MANUAL	ALTERED. DE	SCRIBE	E WORK ACCOMPLI	SHED	ON RE	VERSE IN AC-	
UNIT		MAKE		MODEL.		SERIAL NO.	<del></del>	NATURE OF WORK (Check) JOR REPAIR MAJOR ALTERATION		
a. AIRFRAME		***************************************	♠ (As describe	d in item I above) #	•••••	·········		I ILLI AII.	X	
b. POWERPLANT	*	r e	·	·			-			
c. PROPELLER			4			-4 ···			,	
		TYPE AND MANUFACTURER	-	-			. ,		٠ ،	
d. APPLIANCE		-					·	ŧ	* ,	
*AFTE	4. AIRCRAFT WEIGHT AND BALANCE DATA  *AFTER the repairs and/or alterations described below were made.  This item must be completed by repair or alteration agency. However, in the case of a spare component, it will not be completed until such component is installed in an aircraft. At this time, it will be completed by the installing agency, if applicable.									
CATEGORY	,	EMPTY WEIGHT (Po	unds)*	EMPTY CEN	TER OF G	RAVITY (Inches from datum)	•	USEF	L LOAD (Pounds)*	
STD. 5985 20.6 3215						15				
5. CONFORMITY STATEMENT (Complete and check)										
Everett Pricer Catalina Air Lines 3365 Lakewood Blvd. Long Beach, Calif.  b. Kind of Agency  U. S. Certificated Mechanic.  Foreign Certificated Mechanic.  Certificated Repair Station.  Manufacturer.  (Check if repair or altern was made under delegation.						eated Mechanic. pair Station.  if repair or alteration				
attachmen the inform (Date reps	ation f	e repair and/or alteration to have been made in a curnished herein is true a project of the structure of the	ecordance with nd correct to	th the requirement the best of my	nts of F knowled	Part 18 of the U. S. Clase.  -(Signature of authorized in	iyil Air	Regula	tions and that	
Trator of the Company	PROVE	BY { FAA Design FAA Flight Standards Inspector	lis nee 🔲 Ma	nufacturer [	Cana Cana	dian Department of Tr (Specify), J. A.	Tanspo		ctor of Aircraft	
a. Forward b. Accepte RE	ded for 2 d 2 G. W	engineering comment  26-64  (Date)  E-4-05  matton number)		attached memora d (Dat		Z FI Spot Chec Signature Flight Standard	ked		Date)	

• P P INSTRUCTIONS

This form must be completed in duplicate each time a major repair and/or alteration is made of an aircraft, airframe, power-plant, propeller or appliance. After the repair and/or alteration has been inspected and item 6 completed, the original copy of this form will be made available to the aircraft owner for retention as part of the aircraft records. The duplicate copy is retained by the FAA for administrative purposes.

See CAM 18 for detailed instructions concerning the information to be furnished with this form and instructions concerning its preparation.

#### 8. DESCRIPTION OF WORK ACCOMPLISHED.

- 1. Electric landing gear retract unit installed in accordance with STC #SA4 1551.
- 2. Glide slope receiver installed between stations #1 & #2 forward of bow compartment using 2024-T4 aluminum formed to fit aircraft structure & attached with AN-3 bolts. This receiver installed in same location & manner as installation shown on form 337 dated Feb. 18, 1964.

Item Aircraft Glide Slope Elec. Retra	Rec. ct Unit	Weight 5944 +16	21.1 -115 -5	Moment 125418.4 -1840 -125 123453.4
	123453.4 5985	<b>38</b>	20.6	Empty C.G.
Most forwar	d C.G.			
Aircraft Pilot Min. fuel Oil		5985 +170 +396 +112.5 6663.5	20.6 -5 +30 +8	123453.4 -850 +11880 +9000 143083.4
	143083.4 6663.5	=	21.4	Foremost C.G.
Most rearwa	rd C.G.			
Aircraft Pilot Min. fuel Oil 2 Passenger	S	5985 +170 +396 +112.5 <u>+340</u> 7003.5	20.6 -5 +30 +8 +164	123453.4 -850 +11880 +9000 +55760 197843.4
	1978+3.4 7003.5	3	28.2	Rearmost C.G.

<sup>•</sup>If additional space is needed attach additional sheets bearing aircraft nationality and registration mark and date work completed.

# U. S. DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION

#### Form Approved. Budget Bureau No. 41-R041.5.

INSTRUCTIONS

APPLICATION FOR AIRWORTHINESS CERTI AND/OR ANNUAL INSPECTION OF AN AIR	3 (70) 23 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
1. TYPE OF APPLICATION (Check which)	
B. ORIGINAL ISSUANCE OF CERTIFICATE	d. RECERTIFICATION UNDER THE PROVISIONS OF CAR 8
b. ANNUAL INSPECTION FOR RENEWAL OF CERTIFICATE	e. MULTIPLE CERTIFICATE UNDER THE PROVISIONS OF CAR 8
c. K AMENDMENT OR MODIFICATION OF CURRENT CERTIFICATE	f.
worthiness classification(s):	sued to permit operation of the aircraft in the following air-
a. E STANDARD (NORMAL, UTILITY, ACROBATIC, TRANSPORT CATECO	GORIES)
b. LIMITED (SEE CAR 9)	
c. RESTRICTED (SEE CAR 8)	en e
(Check the restricted special purpose operation(s) to be conducted)	
AGRICULTURAL AND PEST CONTROL	PATROLLING
AERIAL SURVEYING	FOREST AND WIEDLIFE CONSERVATION
GLIDER TOWING	OTHER
d. Experimental	ELI OTHER
Check the type of experimental operation(s) to be conducted)	
RESEARCH AND DEVELOPMENT	RACING
AMATEUR-BUILT	EXHIBITION
☐ DEMONSTRATION	OF THER
3! AIRGRAFT IDENTIFICATION (Complete all items)	
a. AIRCRAFT MAKE b. AIRCRAFT MODEL	c. AIRCRAFT SERIAL NO.
Grumman G-	21A 1191
GINE MAKE	e. ENGINE MODEL
Pratt & Whitney	R-985
. 4	
4. AIRCRAFT REGISTRATION INFORMATION (Complete all	items) ,
a. REGISTERED OWNER'S FULL NAME	b. PERMANENT MAILING ADDRESS c. AIRCRAFT NATIONALITY AND REGISTRATION MARK
Avalon Air Transport, Inc.	3365 Lakewood Blvd. Long Beach 8, Calif
5. AIRCRAFT OWNER'S CERTIFICATION (Check and complete	appropriate (tem)
I hereby certify that I am the registered owner (or l	nis agent) of the aircraft identified in Item 3 above which is required by the Regulations of the Administrator, Part 501 of registration:
8. 2 CERTIFICATE OF REGISTRATION, FORM ACA-500 (PART A). DAT	re of Issue Oct. 4, 1956
b APPLICATION FOR REGISTRATION, FORM ACA-500 (PART B). FO	ORM ACA-500, PART A, FORWARDED TO CAA AIRCRAFT RECORDS BRANCH,
- W-300 ON (DATE)	
c. DEALER'S REGISTRATION CERTIFICATE, FORM ACA-1707, DATED	Í
In order to be eligible for registration an aircraft must be owned by a citizen of the United States, as defined by Section 1 (13) of the Civil Aeronautics Act of 1938, as amended.	
ATTACHMENTS (Check which)	West Plates
ACA-319 [] WEIGHT AND BALANCE REPORT	(SIGNATURE OF REGISTERED OWNER OR AUTHORIZED AGENT)
☐ ACA-319 ☐ WEIGHT AND BALANCE REPORT ☐ ☐ I ACA-337 ☐ DATA, DRAWINGS, ETC.	(SIGNATURE OF REGISTERED OWNER OR AUTHORIZED AGENT)  DV. 27. 1962 President

U. S. DEPARTMENT ОБ-СОММЕРСЕ Сіуіс АЕВОИАЦТІСЯ АВМІЙІЯЛЬВІГОЯ

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SPOT CHECKED	79/68/11	WE-ACIDA-3W	12 12 May
□ ACCEPTED	DATE	CAA DESIGNATION NO.	AVIATION SAFETY AGENT'S SIGNATURE
	3TAQ	DESIGNATION NO.	DESIGNEE.2 SIGNATURE
	WORTHY UNAIRWORTH' (Check appropriate item)	RIA U FOUND IT URING	I HAVE HUSPECTED THE AIRCRAFT DESCRIBED ON THE REVEN
		\	6. CAA REPRESENTATIVE CERTIFICATION
(DATE)		PIS GENONDON OUT STANDA	YO YHTROWRIANU LI
	ZZ/TT ZZ	Little Bill	YHTHOWRIA 124
•	RANSPORT, INC	T HIA MOIAVA	No. +OZ by CAR 52 and was found to
Homers weds 1/121	hority accorded geriffe	nspected under the autl	The aircraft described on the reverse has been i
	cated air ca	ilitias	S. CAA APPROVED <b>ZERKIR/SXATIIQN/CERTIFICAT</b>
· · · · · · · · · · · · · · · · · · ·	CON NOT	(DESIGNAT	(NAME OF ISSUING REPRESENTATIVE)
	<u>-20</u>	†7 (31Va)	PY Robinette
	SOATE NO. 4OZ	4.44 etinilebu	FREVIOUS FORM ACA-1362 WAS ISSUED TO EXPIRE T
Certificate	an <del>iteran</del>	ED TO EXPIRE	CERTIFICATE OF AIRWORTHINESS, FORM ACA-1362, ISSL
Air Carrier			* X THIS INSPECTION HAS BEEN RECORDED IN THE AIRCRA
	dde metere	-	4. CURRENT WEIGHT AND BALANCE INFORMATION IS AVA
maintenance			CHRISTIAN TO ENAME THE FLIGHT MANUAL IS AV.
aircraft is ined under			Debertion Limitations, FORM ACA-309, WAS 155UED     L.
of Affenouse	pidt godu		
		VIEWED	4. AIRWORTHINESS DOCUMENTS ISSUED OR RE
	ู้ ม	19, WAS RETURNED TO OWNE	Р. ☐ РЕRIODIC АІВСВАРТ ІМЗРЕСТІОМ REPORT, FORM ACA-3
	1 1.	<u> </u>	M BY MECHANIC, CERTIFICATE NO. A&P 22
		•0	BY APPROVED REPAIR STATION, CERTIFICATE M
	· · · · · · · · · · · · · · · · · · ·	(ETAG)	BY AIRCRAFT MANUFACTURER
			B. LAST AIRWORTHINESS INSPECTION CONDUCTED
**************************************	(616-ADA N	ВЕСОВОЕО ОИ БОВИ	3. PREVIOUS INSPECTION RECORD (INSPECTION
		TATOT ATOT	SERIAL NO.
	-	SAUOH JATOT	_SERIAL NO.
ç · c	ACTN TIM	TOTALL HOURS ULLK ILL	SERIAL NO. HT. SUUDAY
	OCIAL MILEO	OIIMIO SAUOH JATOT	SERIAL NO. Lett. 6454
	O Sunta	:NC	4. A ENGINE RECORDS INDICATE THE FOLLOWING OPERATION
	SAUCH OC: EOST	N OPERATED A TOTAL OF	c. 🔯 AIRCRAFT RECORDS INDICATE THE AIRFRAME HAS BEE
The second secon	7 000 40	LIAES RECORDED	P. 🛱 COMPLIANCE WITH APPLICABLE AIRWORTHINESS DIREC
		NANCE HISTORY	8. 🗌 AIRCRAFT NEW-NO PREVIOUS OPERATION OR MAINTE
		s	2. АІВСВАТТ АИД ЕИСІИЕ ОРЕВАТІИС ВЕСОВД
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	<u>, , , , , , , , , , , , , , , , , , , </u>	IFICATE)	4. CIVIL AIR REGULATION PART 8 (MODIFIED TYPE CERT
	42-29	_ сон саяр но	The same of the sa
		HEONCH SHEET REVISION NO	AIRCRAFT SPECIFICATION NO. 98
•			I. AIRCRAFT AND ENGINE CERTIFICATION BASI
*Sittle Otto: 2012 At 1	UI IOIHOS OF PURAT REP P	\$10 A	(Check and complete applicable items)
. nriwallat adt at		, No.	The aircraft described in Item 3 on the reverse of thi
			AAO a gd beteldmoo ed oT)
Section 1	ORT .	INSPECTION REP	TARCEPET
	No	แล้งในเป็นเป็นสาย ครา เกษาะ	WEN SIAIO

				•				
MAIOR REPAIR	AND ALTE	RATION FO	RM (	AIRFRAME	POWERPI ANT	PROPFLIFR	OR APPLIA!	NCF)

- 18000

		AIN AND ACIENALIS		· · · · · · · · · · · · · · · · · · ·					
1. AIRCRAFT	MAKE	<b>\</b>	<b>M</b> 4	ODEL.		SERIAL NO.		,	D REGISTRATION MARK
	NAME ()	Vist, middle, last)		<del>021-A</del>	ADDRES	SS (Street and author, city, se	ne and S	<del>1323</del>	
2. OWNER		valon Air Tra	nsport		33	365 Lakewood	Blv	a.	
3. COMPLET CORDANG	E ONL	Y FOR UNIT REPAIRI H CIVIL AERONAUTIC	ED AND/OR A	ALTERED. DE 8.					
UNIT		MAKE	•	MODEL		SERIAL NO.		NATURE OF	WORK (Check) MAJOR ALTERATION
a. AIRFRAME		***************************************	• (As described	in item 1 above) (	•••••				х
b. POWERPLANT	г								
c. PROPELLER									
		TYPE AND MANUFACTURER							
d. APPLIANCE		Burns Seat	2659 2658			x			
4. AIRCRAF	T WEI	SHT AND BALANCE DA	TA This ite	m must be co	mplete	d by repair or alterat	on age	ncy. H	owever, in the
*AFT1	SR the re lescribed	epairs and/or alterations I below were made.	case of a stalled i if applic	n an aircraft.	ent, it At this	will not be complete s time, it will be comp	d until pleted b	such co y the ins	mponent is in- stalling agency,
CATEGORY	·	EMPTY WEIGHT (Po	unds)*	EMPTY CE	NTER OF	GRAVITY (Inches from datum	)*	USEFU	JL LOAD (Pounds)*
Stand	ard	5944		<b>2</b> 0. 9			3256		
5. CONFORM	AITY S	TATEMENT (Complete and	check)	<u> </u>				· · · · · · · · · · · · · · · · · · ·	
G. AGENCY'S NAM	AE AND A	DDRESS		b. KIND OF AGE	NCY		c.	CERTIFICATI	E NO.
				#∓U.S.C	ertifica	ted Mechanic.			
Avalon Air Transport 3365 Lakewood, Blvd. Long Beach, Calif.				☐ Foreign Certificated Mechanic. ☐ Certificated Repair Station. ☐ Manufacturer. ☐ (Check if repair or alteration				arrier	
					tion pr	ade under delegation o ocedures.)			
attachmer	its here	e repair and/or alteratio to have been made in ac urnished herein is true a	cordance with	n the requireme	nts of	Part 18 of the U.S.	d descr Civil Ai	ribed on Regula	the reverse or itions and that
(Date rep	25-6 ar and/o	2 r alteration completed)	i	Will	est	(Signature of authorized	ndividua	240	207
		RETURN TO SERVICE	•		-	V			
		authority specified beloweral Aviation Agency and		tified in item :	3 was i	nspected in the mann	er pres	cribed b	y the Adminis-
API RE	PROVE JECTEI	D BY { FAA Design FAA Flight Standards Inspector	_	ufacturer air Station		adian Department of 'er (Specify)	Γranspα	ort Inspe	etor of Aircraft
1/-2	7 -	62		72	2/	Il obine	the		
(Date	of approv	val or rejection)	· · · · · · · · · · · · · · · · · · ·	(818	nature of	authorized individual; title	or identif	eation nur	nber)
		TED ONLY BY FAA PEI			×.				*10kg
	_	engineering comment	_	tached memora	ındum			•	812
b. Accepte	ed	(Date) Luci	] Reinspected	(Da	ite)	Spot Che	cked	<del>, 03,</del>	Date)
	:	ASDO 20					. <b>Ģ</b>	V"	· .
(F	'AA desig	nation number)		<del></del>		(Signature Flight Standar	ds Inspec	tor)	
16-54010-5		· · · · · ·						For	m FAA-887 (4-52)

This form must be completed in duplicate each time a major repair and/or alteration is made of an aircraft, airframe, power-plant, propeller or appliance. After the repair and/or alteration has been inspected and item 6 completed, the original copy of this form will be made available to the aircraft owner for retention as part of the aircraft records. The duplicate copy is retained by the FAA for administrative purposes.

See CAM 18 for detailed instructions concerning the information to be furnished with this form and instructions concerning its preparation.

#### 8. DESCRIPTION OF WORK ACCOMPLISHED.

Installed Burnss seat, model 1,TSO C 25 at station 164. This seat widened six inches by adding a three inch section to both sides, using the inner sleeve method of repair as shown in manual 18 page 160, fig. 4-4. This seat attached to the aircraft structure by four widget plates and a 2024 T3 hat section in accordance with a previously approved methods for theseven foward passenger seats.

Installed Burns seat model 1- TSO C25 at station 132, at passenger loading door. This seat alteredtoom single passenger seat by cutting the seat in half and welding legs to each corner, using the original seat design, the reclining attachments removed and the back rest welded solid to the seat. This seat attached to the aircraft structure by a 4130 steel tube insert attached to each seat leg by one AN3 bolt, the insert is welded to a 4130 steel plate attached to the aircraft structure by four AN3 bolts.

Installed window both sides of aft section of passenger cabin, as per drawing:

finitely weighted new weight a below a compactal below the property of the pro

\*If additional space is needed attach additional sheets bearing aircraft nationality and registration mark and date work completed.

Check block if additional sheets are attached.

#### FEDERAL AVIATION AGENCY



#### MAJOR REPAIR AND ALTERATION FORM (AIRFRAME, POWERPLANT, PROPELLER OR APPLIANCE)

IOLAM	K KEP	AIR AND ALIERAIIL	JN FURM (	AIRFRAME,	PUWE	RPLANT, PRUPELI	LEK U	K APP	LIANCE)
1. AIRCRAFT	MAKE (	Grummen G-21	. мо	G-21		SERIAL NO.	1	NALITY AN	D REGISTRATION MARK
	NAME (1	First, middle, last)			ADDRESS	(Street and number, city, zon	e and St	ate)	
2. OWNER	.VA	ALON AIR TRANSPO	RT			3365 Lakewo			
3. COMPLET CORDAN	LE ONF	Y FOR UNIT REPAIRE H CIVIL AERONAUTIC	ED AND/OR	ALTERED. DE	SCRIBE				VERSE IN AC-
UNIT		MAKE	<u> </u>	MODEL		SERIAL NO.	N	ATURE OF	WORK (Check)
		MANE		MODEL		SERIAL NO.	MAJOR	REPAIR	MAJOR ALTERATION
a. AIRFRAME		***************************************	• (As described	in item 1 above)	•••••	••••••			X
b. POWERPLAN	r								
c. PROPELLER								<u></u>	
d. APPLIANCE		TYPE AND MANUFACTURER							-
A AIBCDAT	T \4/F:	SHT AND BALANCE DA	TA MILL !!	1		hu mana! 11!		71	
*AFT	ER the re	on I AND BALANCE DA epairs and/or alterations d below were made.	case of	a spare compoi in an aircraft.	nent, it	by repair or alteration will not be completed time, it will be completed time.	luntil	such co	
CATEGORY		EMPTY WEIGHT (Po	unds)*	EMPTY CE	NTER OF G	RAVITY (Inches from datum)*		USEFI	JL LOAD (Pounds)*
Standa	rd	5944			20•9			3256	
5. CONFOR	MITY S	TATEMENT (Complete and	check)						
a. AGENCY'S NA	ME AND AL	DDRESS		b. KIND OF AGE	NCY		c. 0	ERTIFICAT	E NO.
				-		ed Mechanic. cated Mechanic.			Carrier
		IR TRANSPORT		☐ Certific	ated Re	$\cdot$	#402	2	
		ewood Blvd.		☐ Manufacturer.					
Lon	g bea	ch, Calif.		(Check if repair or alteration was made under delegation option procedures.)					
attachmei	nts here	e repair and/or alteratio to have been made in ac jurnished herein is true a	cordance witl	h the requireme	ents of I	Part 18 of the U.S.C	descr ivil Air	ibed on Regula	the reverse or tions and that
11-	25	•		Fyer	ett. F	ricer A&P 12	<u> </u>	3	
	<del></del>	r alteration completed)		Everett	Puce	(Signature of authorized in	dividual	5	
Pursuant	to the a	RETURN TO SERVICE authority specified below eral Aviation Agency and	the unit ider			spected in the manne	er preso	cribed b	y the Adminis-
<b></b> AP	PROVE	D ] [ D FAA Design	nee 🗌 Man	ufacturer	Cana	dian Department of T	'ranspo	rt Inspe	ctor of Aircraft
RE	JECTE	D } BY { ☐ FAA Flight Standards		air Station	C Othe	r (Specify) IA			
		Inspector			is/				
11-	25_62	)		. 411	Upl	Pylor Mar 2	<del>0</del> 907		
		val or rejection)		(Si	gnature of	Buthorized individual; title of	r identif	ication nu	mber)
7. TO BE C	OMPLE	TED ONLY BY FAA PE	RSONNEL						
		engineering comment	_	ttached memor	andum				203
b. Accept	ed	(Date)	Reinspected		ate)	Spot Chec	ked		(Date)
		MLU. WE-		<del></del>	7,	10 /		1	E. J.
		GADO-20		<u> </u>	<u> </u>	Nobine	1	e_	DER
(1	FAA desig	gnation number)			_	(Signature Flight Standard	s Inspect	or) 🔏	





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8. DESCRIPTION OF WORK ACCOMPLISHED.

Removed bulkheed at station 26 as per STC # 108 RV.

Installed picture windows as per STO # SA 101 WE and manufactures approved drawings and instructions.

Aircraft weighed as equipped.

•If additional space is needed attach additional sheets bearing aircraft nationality and registration mark and date work completed.

Check block if additional sheets are attached.

#### FEDERAL AVIATION AGENCY

Form approved. Budget Bureau No. 41-R052.4.

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WAJUR RE	TAIR ARU	ALIERALIUN	<b>FURIN</b>	LAIRFRANC.	PUWCRFLANI.	<b>PROPELLEN</b>	un	AFFLIANGE

<u> </u>		•			-	T22			
1. AIRCRAFT	HAKE Grumma	n	M	G21-A		SERIAL NO. 1191	1	323	D REGISTRATION MARK
2. OWNER	Avelon	idle, last) Air Transpor	t		3369	s (Street and number, city, so Lakewood Blyd Beach, Califo	i.	ule)	
3. COMPLET CORDAN	CE WITH CIV	R UNIT REPAIR	ED AND/OR A	ALTERED. DE	SCRIB	E WORK ACCOMPLI	ISHED	ON RE	VERSE IN AC-
UNIT		MAKE		MODEL		SERIAL NO.		REPAIR	WORK (Check)  MAJOR ALTERATION
a. AIRFRAME	*****	***************************************	• (As described	in item I above) (	*****	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	· .		х
b. POWERPLANT	r								
c. PROPELLER									
d. APPLIANCE	TYPE AN	D MANUFACTURER	-						
*AFT		ND BALANCE DA nd/or alterations were made.	case of a	a spare compon in an aircraft.	ent. it	l by repair or alterati will not be completes time, it will be comp	d until	such co	lowever, in the imponent is installing agency,
CATEGORY	,	EMPTY WEIGHT (Po	unds)*	EMPTY CE	NTER OF G	GRAVITY (Inches from datum)	•	USEF	UL LOAD (Pounds)*
Standard		5944	<u>.</u>		20.9			3254	5
5. CONFOR	MITY STATE	MENT (Complete and	check)						
a. AGENCY'S NAM	ME AND ADDRESS			b. KIND OF AGE	NCY			ERTIFICAT	
3365 La	Air Trans kewood Bl ach, Cali	yd.		Foreign Certifics Manufa	Certificated Recturer. (Checkwas ma	ted Mechanic, cated Mechanic, epair Station, if repair or alteration de under delegation operations	on d	Air O: # 402	errior
attachmen the inform	nts hereto hav nation furnishe	r and/or alteration to been made in acced herein is true a	cordance with	the requireme	nts of l	nder item 3 above and Part 18 of the U. S. C dge.	d descri	Regula	the reverse or ations and that
	5-62	on oom 114.3\		A&P 12405	17	Cverell	سرل س	nce	1
	pair and/or alterati					(Signature of authorized in	VIGURI,	, 	
Pursuant	to the authori	IRN TO SERVICE ty specified below viation Agency and	the unit iden			nspected in the manne	er presc	ribed b	y the Adminis-
l. <u> </u>	PROVED BY	$ig(ig\{igcup_{oxed{FAA}}\ oxed{FAA}\ oxed{Flight}$	_		Othe	adian Department of Ter (Specify)	Franspo	rt Inspe	etor of Aircraft
	5-62 of approval or rej	Inspector ection)		Albert Ta A&P240907 (81g	7	authorized individual; title	M or isloutifi	cation nu	mber)
7. TO BE CO	MPLETED O	NLY BY FAA PE	RSONNEL				/		130.
	ded for engine	ering comment		tached memora		[] Spot Chec	:ked		TO POST
<u></u>	ASDO	20 umber)		J.W	2/	(Signature Flight Standard	ls Inspecto	ф п)	
1654010-5	<del></del>			<del></del>				For	m FAA-887 (4-52)

16--54010-5

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8. DESCRIPTION OF WORK ACCOMPLISHED.

Installed McKinnon increased gross weight kit as per STC #SA4-1467 and McKinnon drawing and instructions on file at Avalon Air Transports maintenance office.

ainaft weighed

\*If additional space is needed attach additional sheets bearing aircraft nationality and registration mark and date work completed.

Check block if additional sheets are attached.

#### FEDERAL AVIATION AGENCY

Form approved. Budget Bureau No. 41-R052.4.

## MAJOR REPAIR AND ALTERATION FORM (AIRFRAME, POWERPLANT, PROPELLER OR APPLIANCE)

· · · · · · · · · · · · · · · · · · ·			<u> </u>	······································			
1. AIRCRAFT	Gridhaen Gridhaen	M	G21 A	SERIAL NO. 1191		B323	D REGISTRATION MARK
2. OWNER	name (First, middle, last) Avelon Air Transpor	•		ADDRESS (Street and number, 3365 Lakewood Long Boach, Cal	Blvd.	·	
3. COMPLET CORDANG	TE ONLY FOR UNIT REPAIR CE WITH CIVIL AERONAUTI	RED AND/OR CS MANUAL 1	ALTERED. DE	SCRIBE WORK ACCO	MPLISHE	ON RE	VERSE IN AC-
UNIT	MAKE		MODEL	SERIAL NO.		NATURE OF	WORK (Check)
a. AIRFRAME	***************************************	♦♦♦♦♦♦♦ (As described in item I above)				X.	X
6. POWERPLANT					•	#->	~
c. PROPELLER			****				
<del> </del>	TYPE AND MANUFACTURER				- ·		
d. APPLIANCE							
*AFT1	T WEIGHT AND BALANCE D ER the repairs and/or alterations lescribed below were made.	case of	a spare compon in an aircraft.	npleted by repair or alt ent, it will not be com At this time, it will be	pleted uni	il such co	lowever, in the mponent is in- stalling agency,
CATEGORY	EMPTY WEIGHT (F	ounds)*	EMPTY CEN	TER OF GRAVITY (Inches from	latum)*	USEFL	JL LOAD (Pounds)*
Standard	5984			20.9	•	52	#E
5. CONFORMITY STATEMENT (Complete and check)							
. AGENCY'S NAM		······································	b. KIND OF AGEN	сү		. CERTIFICATI	E NO.
3365 Lal	Mr Transport rewood Blvd. sch: Celifornia		Foreign Certifics Manufa	rtificated Mechanic. Certificated Mechanic. ted Repair Station. eturer. Check if repair or alt vas made under delegat ion procedures.)		Air Ca f402	rrigr
attachmer	that the repair and/or alteration alteration furnished herein is true	ccordance with	h the requiremen	nts of Part 18 of the U	e and des S. Civil	cribed on Air Regula	the reverse or tions and that
11-25-6	<u> </u>		Everatt/	ricer A&P 12405			
	air and/or alteration completed)		Everett Vu	(Signature of autho	rized individu	ial)	
Pursuant (	L FOR RETURN TO SERVIC to the authority specified below he Federal Aviation Agency ar	w the unit iden			aanner pre	escribed b	y the Adminis-
APPROVED BY { ☐ FAA Designee ☐ Manufacturer ☐ Canadian Department of Transport Inspector of Aircraft ☐ Rejected ☐ FAA Flight ☐ Repair Station ☐ Other (Specify) ♣ • ♣ • ↑ • ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑				etor of Aircraft			
11-25- (Date	62 of approval or rejection)			TIOF ASP240507	title or iden	tification not	fiber)
7. TO BE CO	MPLETED ONLY BY FAA PE	RSONNEL					1082
a ☐ Forward b.   Accepte	(Date)	☐ See at ☐ Reinspected	ttached memora	Spot	Checked 7	DEC.	18 1982
	Reg. 4 LA ASDO 20 AA designation number)		J. 1.	Signature Flight St	ette	ector)	
(F	AA GORGESTON HUMBER)			(Oignature rught of	manus mil		

16-54010-5

Form FAA-887 (4-52)

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#### 8. DESCRIPTION OF WORK ACCOMPLISHED.\*

is Installed a one piece baggage hatch.

2-Installed stainless steel couplings on the landing gear operating shafts.

3-Replaced top nose skin from insturment panel to front baggage hatch,

4-Replaced insturment penal.

5-Replaced vertical stablizer spar.

6-Recovered rudger and both elevators, using Rezorback fabric in accordance

with 8TO # SA2-952.

7-Installed Hartsell propellers in accordance with STC #361-52.

2-Installed emergency exit light in accordance with STC # SA4-1203.

9-Installed radio equipment as follows, in accordance with previousley approved installations:

MB 3 Marker Beacon Regiever.

ARC 150 Omni System Two Cl66 Jack Boxes Circuit Broker Box.

Check block if additional sheets are attached.

\*If additional space is needed attach additional sheets bearing aircraft nationality and registration mark and date work completed.



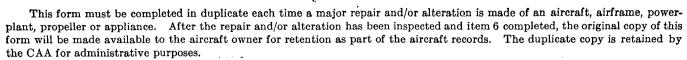
# U. S. DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION



Form approved. Budget Bureau No. 41-R052.4.

#### MAIOR REPAIR AND ALTERATION FORM (AIRFRAME POWERPLANT PROPELLER OR APPLIANCE)

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1. AIRCRAFT	MAKE	TOTTLOC AND	1	ODEL,		SERIAL NO.	NATIO	NALITY AN	D REGISTRATION MARK
		RUMMAN First, middle, last)	G	21 A	ADDRESS	(Street and number, city, zone	and Sta	N323	
2. OWNER	AVA	ON AIR TRANSPORT	•		3365 LONG	LAKEWOOD BLVD. BEACH 8, CALIF	ORNI	Ά	
3. COMPLET CORDAN	TE ONL	Y FOR UNIT REPAIRE H CIVIL AERONAUTIC	D AND/OR A	ALTERED. DE 8.	SCRIBE	WORK ACCOMPLIS	HED (	ON RE	VERSE IN AC-
UNIT		MAKE		MODEL		SERIAL NO.			WORK (Check)
	MAJOR REPAIR MAJOR ALTERATION					MAJOR ALTERATION			
a. AIRFRAME		***************************************	A (As described	in item 1 above) 6		••••••		<u> </u>	X
b. POWERPLAN	r 								
c. PROPELLER									
d. APPLIANCE		TYPE AND MANUFACTURER							
A AIRCRAE	TWEL	HT AND BALANCE DA	TA 1001-11		n m l n 4 : -?	hy ropain on elteration		.017 73	lowever in the
*AFT	ER the re	epairs and/or alterations i below were made.	case of	a spare compon n an aircraft.	ent. it	by repair or alteration will not be completed time, it will be comple	until	such co	lowever, in the mponent is installing agency,
CATEGOR	·	EMPTY WEIGHT (Por	ınds)*	EMPTY CE	TER OF G	RAVITY (Inches from datum)*		USEF	JL LOAD (Pounds)*
STD.		6181	:	25.	.0			181	9
5. CONFOR	MITY S	TATEMENT (Complete and	check)						
a. AGENCY'S NAI	ME AND A	DDRESS		b. KIND OF AGE	NCY		c. C	ERTIFICAT	E NO.
	E. ED	ior Gefield California		☐ Certific	Certificated Recturer. (Check was made	ed Mechanic. cated Mechanic. pair Station.  if repair or alteration de under delegation op- cedures.)		24096	D <b>7</b>
attachme	nts here	e repair and/or alteratio to have been made in ac urnished herein is true a	cordance with	the requireme	nts of I	Part 18 of the U.S. Ci	descri vil Air	bed on Regula	the reverse or tions and that
6-2 (Date rep	3_59 pair and/o	r alteration completed)		Als	KA	(Signature of authorized ind	AL.	ERT 1	AYLOR
	to the a	RETURN TO SERVICE authority specified below				spected in the manner	presc	ribed b	y the Adminis-
XX AF	PPROVE	ED BY CAA Design CAA Avia Safety Age	gnee			dian Department of Tr	anspo	rt Inspe	ctor of Aircraft
6-23 (Date		val or rejection)		- All (Sig	nature of	ALB authorized individual; title or	ERT identifi	TAYLO	iP mber)
7. TO BE C	OMPLE"	TED ONLY BY CAA PER	RSONNEL			<b>/</b>			
b. Accepte		engineering comment	☐ See at Reinspected	tached memora (Da		Spot Check	ed	(	(Date)
'ASI	00 2	<u> </u>		refile		B Klenter	ch	<i>_</i>	
(OA	A design	ation number)		7		(Signature A viation Safety	Agent)		,
16-54010-4								Fo	rm ACA-337 (4-52)



See CAM 18 for detailed instructions concerning the information to be furnished with this form and instructions concerning its preparation.

8. DESCRIPTION OF WORK ACCOMPLISHED.

## INSTALLED ANTI COLLISION LIGHT IN ACCORDANCE WITH S.T.C. # SAL-8L6

ITEM	WEIGHT	ARM	MOMENT
AIRCRAFT (EMPTY)	6179	25.	151475
ANTI-COLLISION LIGH	IT 2	286,83	573.66
	6181		155048.66

155048.66 = 25.0 EMPTY C.G.

EMPTY WEIGHT C.Q. REMAIN THE SAME

<sup>•</sup>If additional space is needed attach additional sheets bearing aircraft nationality and registration mark and date work completed. Check block if additional sheets are attached.

16-54010-4



Form approved. Budget Bureau No. 41-R052.4.

#### MAJOR REPAIR AND ALTERATION FORM (AIRFRAME, POWERPLANT, PROPELLER OR APPLIANCE)

			,				
1. AIRCRAFT	MAKE . Grumman	М	G 21 A	SERIAL 191	NA	TIONALITY AND	REGISTRATION MARK
2. OWNER	NAME (First, middle, last) Avalon Air Transport	, Inc.		ADDRESS (Street and nur 3365 Lakewoo Long Beach	od Blvd.		
3. COMPLET CORDAN	TE ONLY FOR UNIT REPAIRE CE WITH CIVIL AERONAUTIC	ED AND/OR		CRIBE WORK AC	COMPLISHE	ON RE	/ERSE IN AC-
UNIT	MAKE		MODEL	SERIAL N	o	NATURE OF	WORK (Check)  MAJOR ALTERATION
a. AIRFRAME	***************************************	• (As described	in item I above) 👫			ON KEPAIN	X
E. AINI NAME		- (As described	th stem 1 doors, **				
b. POWERPLAN							
c. PROPELLER							
d. APPLIANCE	TYPE AND MANUFACTURER						
4 AIDCDAE	TWEIGHT AND DALANCE DA	TA TOLL !	. 1	14 11		U	amount in the
*AFT	T WEIGHT AND BALANCE DA ER the repairs and/or alterations described below were made.	case of	a spare compone in an aircraft. A	pleted by repair ont, it will not be t this time, it will	completed \unt	il such co	owever, in the mponent is intalling agency,
CATEGOR	EMPTY WEIGHT (Por	unds)*	EMPTY CENT	ER OF GRAVITY (Inches	from datum)*	USEFU	L LOAD (Pounds)*
Standard	6179		25.0	•			1821
5. CONFOR	MITY STATEMENT (Complete and	check)					
a. AGENCY'S NA			b. KIND OF AGENC	Y		. CERTIFICATE	
6102 Fr	. Rayner eckles Road d 8, California		☐ Foreign (	tificated Mechanic Certificated Mecha ed Repair Station	inic.	&P 1188	1001
	, •		☐ Manufact	_			
			w w	Check if repair or as made under del on procedures.)			
attachme	that the repair and/or alterations hereto have been made in accusation furnished herein is true a	cordance witl	h the requiremen	ts of Part 18 of th	above and des	cribed on Air Regula	the reverse or tions and that
Novembe	r 1, 1958		(/<)	Bour	سرع		
(Date re	pair and/or alteration completed)		J. E. Ray	HET (Signature of	authorized individ	ual)	
	AL FOR RETURN TO SERVICE to the authority specified below is			was inspected in t	he manner pre	escribed by	y the Adminis-
AF	PROVED BY \ \bigcap CAA Desi  \bigcap CAA Avia  Safety Ago	gnee	anufacturer pair Station	Canadian Depart Other (Specify)	ment of Trans	port Inspe	ctor of Aircraft
	r 1, 1958 of approval or rejection)		ATHERS	Laylor the or authorized indi	A&	P 24090	
7. TO BE C	OMPLETED ONLY BY CAA PE	RSONNEL	1	V			
a.  Forwar  Accept	ded for engineering comment	☐ See at Reinspected	ttached memoran	🗆 8	Spot Checked_		Date)
_	g. 4 LA		$\mathcal{L}^{\tilde{\mathcal{L}}}$		Dr 7	·	
, <del></del>	AA designation number)		1.1	(Signature A	viation Safety Age	nt)	

Form ACA-337 (4-52)

# •

#### INSTRUCTIONS

This form must be completed in duplicate each time a major repair and/or alteration is made of an aircraft, airframe, power-plant, propeller or appliance. After the repair and/or alteration has been inspected and item 6 completed, the original copy of this form will be made available to the aircraft owner for retention as part of the aircraft records. The duplicate copy is retained by the CAA for administrative purposes.

See CAM 18 for detailed instructions concerning the information to be furnished with this form and instructions concerning its preparation.

8. DESCRIPTION OF WORK ACCOMPLISHED.

Removed A.R.C. VHF radio at -33 inches.

Installed Lear VHF LVTR-36 at -33 as per STC No. SA4-637.

Radio and racks removed were the same weight as radio installed. No weight change.

•If additional space is needed attach additional sheets bearing aircraft nationality and registration mark and date work completed.

Check block if additional sheets are attached.



Form Approved. Budget Bureau No. 41-R041.5.

APPLICATION FOR AIRWORTHINESS CERTIFICATE

INSTRUCTIONS Please print or type. Submit this form to the Civil Aeronautics Administration Aviation Safety

AND/OR ANNUAL INSPECTIO	N OF AN AIR	UKAFT	Field Rep	resentative.	and the second second
1. TYPE OF APPLICATION (Check which)				· · · · · · · · · · · · · · · · · · ·	<del>*************************************</del>
a. Toriginal issuance of certificate		d.   RECE	RTIFICATION L	INDER THE PRO	IVISIONS OF CAR 8
b. ANNUAL INSPECTION FOR RENEWAL OF	CERTIFICATE		*		E PROVISIONS OF CAR 8
c. AMENDMENT OR MODIFICATION OF CUR	RENT CERTIFICATE	f. 🗌		-	
				•	
2. AIRWORTHINESS CLASSIFICATION  It is requested that the Certificate of a worthiness classification(s):	(Check appropriate item(s Airworthiness be iss	sued to peri	nit operatio	n of the airc	raft in the following air-
a. X STANDARD (NORMAL, UTILITY, ACROBAT	TIC, TRANSPORT CATEG	ORIES)			
b, LIMITED (SEE CAR 9)		,		•	
c. RESTRICTED (SEE CAR 8)					
(Check the restricted special purpose operation				•	
AGRICULTURAL AND PEST CONTR	OL	PATRO			
AERIAL ADVERTISING	•	☐ FORES	T AND WILDL	IFE CONSERVAT	TION
AERIAL SURVEYING		☐ WEATH	IER CONTROL		
GLIDER TOWING		OTHER	<b>t</b> ,		,
d. TEXPERIMENTAL					
(Check the type of experimental operation(s) to	De conducted)		_		
RESEARCH AND DEVELOPMENT		RACIN			
☐ AMATEUR-BUILT	= "	☐ EXHIB		. ,	
DEMONSTRATION	ř	☐ OTḤEI	₹		
. AIRCRAFT IDENTIFICATION (Complete	e all items)				· .
s. AIRCRAFT MAKE	b. AIRCRAFT MODEL			c. AIRCRAFT	ERIAL NO.
GRUMMAN	G-21 A			119	91
-			(		
d. ENGINE MAKE	,	e. ENGINE M	IODEL		
2) Pratt & Whitney	t	R-98	35 - AN	6	· · · · · · · · · · · · · · · · · · ·
. AIRCRAFT REGISTRATION INFORM	IATION (Complete all i	tems)			
a. REGISTERED OWNER'S FULL NAME		b. PERMANE	NT MAILING A	DDRESS	c. AIRCRAFT NATIONALITY AND REGISTRATION MARK
Avalon Air Transport, In	^	. 3365 1	Lakewood	Blvd	AND NEODITION MAIN
Avaion air mansport, in			Beach, C		N-323
		nong .	Jeach, O	<b>अ</b> ⊤⊤т •	N-J&J
	1				
. •					
		1			
5. AIRCRAFT OWNER'S CERTIFICATIO				. 11	Tr 0 .1 12.1
I hereby certify that I am the reg registered* with the Civil Aeronautics or 502 and when operated displays the	Administration as r	equired by	the Regulat	tions of the	Administrator, Part 501
a. CERTIFICATE OF REGISTRATION, FORM				1956	
b. APPLICATION FOR REGISTRATION, FORM					IDCDAET DECODING BOARIOU
•	NOR-DOV (FART B). FU	na ala-200, P	AIN A, FUNYA	INDED TO CAA A	AMERICA MECURDO DRANCA,
W-300 ON(DATE) c. DEALER'S REGISTRATION CERTIFICATE,	FORM ACA_1707 DATED			-	
L. DENERGO REGISTRATION CERTIFICATE,	OMMINON-INI, DATED	<del></del>	NA.		
*In order to be eligible for registration an aircr owned by a citizen of the United States, as defined	oft must be by Section				
1 (13) of the Civil Aeronautics Act of 1938, as amen	ded.	71			7 /
ATTACHMENTS (Check which)		11:0	1 1	9 1/2	
X ACA-319 X WEIGHT AND BALANCE RE	PORT	(SIGNATI	IN . I	RED OWNER OR AL	THORIZED AGENT)
ACA-337 DATA, DRAWINGS, ETC.	The state of the s	1 10	ملاء م		<b>?</b>
☐ ACA-317 ☐ UNAPPROVED DEVIATION I	DATA Tie	(DATE)	195 /	- //	(TITLE)
<del>alangtal an garage</del>			we was a second	and the second second	Committee and the state of the

U. S. DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION

#### AIRCRAFT INSPECTION REPORT

			4.	TATACHMENT
	SPOT CHECKED	/	VZ OGSV	J-11-15 Sommer
	☐ REINSPECTED	65-61-6	Keg. 4 LA	He for the
	☐ ACCEPTED	3TAG	CAA DESIGNATION NO.	AVIATION SAFETY AGENT'S SIGNATURE
	f.			
	4	DATE	DESIGNATION NO.	DESIGNEE, SIGNATURE
	,	WORTHY UNAIRWORTHY (Check appropriate item)	язе аир гоцир тт	I HAVE INSPECTED THE AIRCRAFT DESCRIBED ON THE REVE
				6. CAA REPRESENTATIVE CERTIFICATION
	(DATE)	(SATURE)	IBIÈ GEXINOHTUA NOITATE RIAGEN	- CHIVAININA T
		<b>1</b>		унтяомяіа ∐ Үнтяомяіаий ∐
			:0 06:	No. Dy CAR 52 and was found
	ted tepair station	hofily accorded certilica		The aircraft described on the reverse has been
		The state of the s		5. CAA APPROVED REPAIR STATION CERTIFICAT
	<del></del>	TION NO.)		(NAME OF ISSUING REPRESENTATIVE)
			(STAG)	
		(DATE)	me 16	E. T PREVIOUS FORM ACA-1362 WAS ISSUED TO EXPIRE
	, , ,	45-7		CERTIFICATE OF AIRWORTHINESS, FORM ACA-1362, ISS
				e. A THIS INSPECTION HAS BEEN RECORDED IN THE AIRCR.
ı		•		A CURRENT WEIGHT AND BALANCE INFORMATION IS AVE
				b. V CURRENT OPERATION LIMITATIONS, E-ORM ACA-399-15
				A OPERATION LIMITATIONS, FORM ACA-309, WAS ISSUED
	energia i superiore de la compansión de la La compansión de la compa			4, AIRWORTHINESS DOCUMENTS ISSUED OR RE
	· · . · . · . · . · · · · · · · · ·		VIEWED	4 VIEWORTHINESE DOCIMENTS ISSUED OR RE
	,	a.	19, WAS RETURNED TO OWNE	Б. Q РЕRIODIC AIRCRAFT INSPECTION REPORT, FORM ACA-
			2,08	WAY MECHANIC, CERTIFICATE NO. 2 CO
:		<del></del>	•0	BY APPROVED REPAIR STATION, CERTIFICATE N
			(atad)	BY AIRCRAFT MANUFACTURER
	•	•	13-17	Ter Track Alexander Inspection Conducted
`		(616-ADA N	В ВЕСОВОЕО ОИ БОВИ	3. РЯЕУІОИЯ ІМЯРЕСТІОМ ВЕСОВО (ІМЯРЕСТІОМ
	÷ :	<del></del>	SRUOH JATOT	SERIAL NO.
			ERUOH JATOT	SERIAL NO.
		711	Y V & SAUOH JATOT	SERIAL NO. 6 47 G
		37.	3-1 6 SRUOH JATOT	4. K ENGINE RECORDS INDICATE THE FOLLOWING OPERATI
·		CAUCHA 2		S. N AIRCRAFT RECORDS INDICATE THE AIRFRAME HAS BEI
		зыпоно 3 : EE L 1	· · · · · · · · · · · · · · · · · · ·	b. ☐ COMPLIANCE WITH APPLICABLE AIRWORTHINESS DIREC
				A LIRCRAFT NEW-NO PREVIOUS OPERATION OR MAINTE
				2. АІЯСКАГТ АИД ЕИСІИЕ ОРЕКАТІИС КЕСОЯД
				decode Skilvado dalono da para da para da sa
			(EICATE)	A. CIVIL AIR REGULATION PART 8 (MODIFIED TYPE CERT
		7-25	тикои сако ио.	A AIRWORTHINESS DIRECTIVE SUMMARY 6 5 5 6
4		· · · · · · · · · · · · · · · · · · ·	erica de la companya	A P A RCRAFT LISTING PAGE NO. 9 A
			HBONCH SHEEL BENISION NO	1. AIRCRAFT AND ENGINE CERTIFICATION BASI
1				(Check and complete applicable items)
( ew)	Saniwollof ant ot	miolnoo of banol bas be	s form has been inspécte	The sircraft described in Item 3 on the reverse of thi
7.75			Table 1. The second of the sec	(To be completed by a CAA
		.1.246)	INSPECTION KER	JUNEAU TAILA

Form ACA-305a (11-51)

e otrice 16 31-3

Form approved. Budget Bureau No. 41-R052.4.

## MAJOR REPAIR AND ALTERATION FORM (AIRFRAME, POWERPLANT, PROPELLER OR APPLIANCE)

1. AIRCRAFT	AKE ODIPINA AN	MC	DDEL A	SERIAL NO.	1 .		REGISTRATION MARK
	GRUMMAN .	ll	G-21 A	DRESS (Street and number, city,		<b>V323</b>	
2. OWNER	AME (First, middle, last)  AVALON AIR TRANSPO	RT, INC.	AD	3365 Lakewood	Blvd.	·	· .
				Long Beach,			
3. COMPLETE CORDANCE	ONLY FOR UNIT REPAIR WITH CIVIL AERONAUTION	ED AND/OR A S MANUAL 1	ALTERED. DESC 8.	RIBE WORK ACCOMP	LISHED	ON REV	ERSE IN AC-
-					N N	ATURE OF	WORK (Check)
UNIT	MAKE		MODEL .	SERIAL NO.	MAJOR	REPAIR	MAJOR ALTERATION
a. AIRFRAME	***************************************	• (As described	in item I above) 👭	•••••	X		x
b. POWERPLANT			•				
c. PROPELLER	·	•					
	TYPE AND MANUFACTURER						*
d. APPLIANCE		,					
*AFTER	WEIGHT AND BALANCE DA the repairs and/or alterations cribed below were made.	case of a	a spare component n an aircraft. At	eted by repair or altera, it will not be comple this time, it will be con	ted until	such cor	mponent is in-
CATEGORY	EMPTY WEIGHT (Po	unds)*	EMPTY CENTER	OF GRAVITY (Inches from datu	m)*	USEFU	L LOAD (Pounds)*
Std.	6179			25 <b>.</b> 0		נ	.821
5. CONFORMI	TY STATEMENT (Complete and	check)					
a. AGENCY'S NAME	AND ADDRESS		b. KIND OF AGENCY		c. C	ERTIFICATE	NO.
Alb	ert Taylor		Foreign Ce Certificated Manufactu (Ci	ficated Mechanic.  rtificated Mechanic.  Repair Station.  rer.  teck if repair or altera  made under delegation  procedures.)	tion	4&E 24	.0907
attachments the informat	at the repair and/or alterations hereto have been made in action furnished herein is true a	ccordance with	i the réquirements	of Part 18 of the U.S. owledge.	and descr. Civil Air	r Regula	the reverse or tions and that
	FOR RETURN TO SERVICE the authority specified below			as inspected in the mar	oner preso	cribed by	the Adminis-
<b>€</b> TAPPE □ REJE	ECTED BY \ \bigcit{CAA Design} CAA Avident	ignee 📋 Ma ation 🔲 Rej ent	_ <del>-</del> _	Canadian Department of Other (Specify)	f Transpo	rt Inspec	etor of Aircraft
2 CDate of	2 - 5 2 approval or rejection)		(Signatu	re of authorized individual; tit	Fin tle or identifi	Z leation nun	nber)
7. TO BE COM	IPLETED ONLY BY CAA PE	RSONNEL					
a. Torwarded	d for engineering comment  (Date)	See at Reinspected	tached memorand	ım Spot Ch	ecked	·	Date)
(CAA	designation number)			(Signature Aviation Sa	afety Agent)	<u> </u>	Reg. 4 LA

16--54010-4

Form ACA-387 (4-52)

This form must be completed in duplicate each time a major repair and/or alteration is made of an aircraft, airframe, power-plant, propeller or appliance. After the repair and/or alteration has been inspected and item 6 completed, the original copy of this form will be made available to the aircraft owner for retention as part of the aircraft records. The duplicate copy is retained by the CAA for administrative purposes.

See CAM 18 for detailed instructions concerning the information to be furnished with this form and instructions concerning its preparation.

#### 8. DESCRIPTION OF WORK ACCOMPLISHED.

All fabric surfaces recovered using Grade A fabric; and Butuate dope.

Installed 7 main cabin seats and one jump seat as per former approvel on Grumman G-21A form ACA 337, dated June 20, 1956.

Aircraft and engine electrical system rewired from cockpit to engines.

<sup>•</sup>If additional space is needed attach additional sheets bearing aircraft nationality and registration mark and date work completed.

Form No. LA-40 Rev. 9/29/53

#### DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION Los Angeles 45, California

## AIRCRAFT WEIGHT AND BALANCE REPORT

MAKE Gruman	MODEL G-21A	SERIAL #1191	REGISTRATION #_N323 -
DATUM IS Leading Ed	ige of Wing at Puselag	<u> </u>	
. ·	A. COMPUTED AS FOL	LOWS IF AIRCRAFT WEIGH	ED
•			
l. Leveling means:			10 " AFT)
2. Main wheel weighi of datum.	ng point is located (	TORWARD) (_	
3. Actual measured d	istance from the main	weight point centerli	ne to the tail (or nose)
noint centerline	### 277 J.		
4. Oil over and abov	e "ZERO" tank reading	- (a. <u>15</u> Gals.)	(b. 113 lbs.)
(c. 8 In.)			
:	. 'D ለሮሞ፤፣ለ፣	EMPTY WEIGHT	
	Do MOIURE	EPH II WEAGH	
• •			. :
Weight Point	Scale Reading	- Tare	= Net Weight
5. Right	3100		3093
6. Left	2885	<u>+5</u> +10 −	2880 319
7. Tail	329	-10	
8. Nose 9. Total Net Weight			6292
	BY: Danie S.	Judy -DMR D	, .
10. C.G. relative t	C. CENTER OF o main wheel weighing airc. (Item 3) 277.4	GRAVITY AS WEIGHED	7 . 7 = C.G.
(a) Tall Wheel	airc. (Ivem )) 2/1.4	292 (Item 9)	
(b) Nose wheel		X (Item 8) =	= C.G.
11. C.G. relative t	o datum:		21.7 = C.G.
(a) Tail wheel	airc. (Item 10a) added	to (Item 2) =	2/.7 = C.G.
(b) Nose wheel	airc. (Item 10b)added	to (Item 2) =	
D.	COMPUTED IF AIRCRAFT	WEIGHED WITH OIL (Item	<u>. 4)</u>
	Wai aht	x Arm	s Moment
Aircraft	Weight (9) 6292		155412.4
Less Oil	(4b) 113	(11) 24.7 (4c) 8	904
Empty Totals	(a) 6179		(b) 154508.4
(b).	154508.4	s (c) 25.0	m = Empty weight C.G.
12。 (a)	6179		
DEDATE ACRÉCY /	Avalon Air Transport.	Inc.	DATE Feb. 11, 1957
REPAIR AGENCY	ilbert Paylor	Number Q&C. 240	1000
. •	rivery oughts		
	ŕ	(Over)	· · · · · · · · · · · · · · · · · · ·

#### E. - EQUIPMENT LIST

201. 302	Optional Item Number 101, 102   106b, 30	301. 104.	###, 215	205a, 225	103, 108, 109,	
110. 2044.	207b. 210 217 and c	ne each of the	following	BCA33G ADF	ARC-T21A Trans.	
ARC-R15 Rec	BC788D Loc Rec. Cor	trol Bones. Te	ch Shafta an	d Antennas		
•		1		,		
Special Equipment -						
I tem	Make	Mode]	L We:	ight	Arm	
•			٠			
Enter above those items included in the empty weight						

## F. WEIGHT AND BALANCE EXTREME CONDITIONS

	FORWARD C	HECK			RWARD CHECK	
Item	Weight X	· Arm =	Moment	Weight X	Arm =	Moment
lire,Empty	<b>6179</b> (9 or 12a)	25.0 (11 or 12c)	154475	<b>6179</b> (9 or 12a)	(11 or 12c)	154475
Oil Full	113	8	904	113	8	904
Pilot	(2) 340	5	1700	(1) 170	5	<u>-850</u>
Fuel	396	30	11880	10/6	30	31380
Passenger(s			-16250	(1) 170	130	22100
Baggage	250	-65	·	325	169	5/925
TOTAL	7278		1/9309	8000		262934
	TM -149309 = 20.5 TM - 262934 = 32.8 = TW 8000					

#### G. LOADING SCHEDULE

Gallons of Fuel	Number of Passengers	Pounds of Baggage					
See	Aircraft Loading Char						
The above in	The above includes pilot and capacity oil						

#### H. EQUIPMENT CHANGE

Computing New C. G.					
Item, Make and Model*	Weight	X Arm	a Mo	ment	
Airc. Empty.	(9 or 12a)	(11 or 12c	2)		
AIre, Empey.	- V 01 1~ 47				
NET TOTALS				ومورون والمنافع مواري موارس موروس	
<u>nm</u> =		、 <b>题</b>	<b>=</b>	New C. G.	
NW NW					
NW					

# Avalon Air Transport, Inc.

**NEVADA 6-9137** AVALON 385

ADMINISTRATION BLDG.. ... LONG BEACH MUNICIPAL AIRPORT 3365 LAKEWOOD BOULEVARD LONG BEACH 8, CALIFORNIA

#### OPERATIONS LIMITATIONS

Registration No. N323

GRUMMAN G-21A

Serial No. 1191

ENGINES:

P & W R-985 AN6

FUEL:

80 Min. Octane aviation gasoline (for 400 HP Rating)

87 Min. Odtane aviation gasoline (for 450 HP Rating - Take off)

ENGINE LIMITS: Maximum except takeoff (Sea Level) 34.5 in. Hg. 2200 RPM (400 hp) Straight line manifold pressure variation with altitude to 500 ft. 33.5 in. Hg., 2200 RPM (400 hp) Take-off (One Minute) (with 80 octane fuel) 33.5 in. Hg.

2200 RPM (400 hp).

With 87 Octane Fuel 36.5 in. Hg., 2300 RPM (450 hp)

AIR SPPED LIMITS: Level flight or climb 194 MPH (169 Knots) TIAS - Glide or dive 225 MPH (195 Knots) Flaps Extended - 110 MPH (96 Knots)

CEILINGS:

(a) Without de-icers - 6000 ft.absolute (density altitude)

either engine inoperative

(b) With de-icers Not applicable

C. G. RANGE: (20.5)(15.2% MAC to (33.0)(28.0%MAC)

DATUM:

Wing leading edge at fuselage.

LEVELING MEANS: Lugs on right side and aft bulkhead of pilot's compartment

BAGGAGE:

700 lbs. Maximum (300 pounds in front compartment (-65); 400

pounds in rear compartment (169)

FUEL CAPACITY: 220 gals. (30)

OIL CAPACITY:

15 gals. (one  $7\frac{1}{2}$  gal. tank in each nacelle) (8)

SEE ACTUAL WEIGHT AND BALANCE FOR LOADING INFORMATION

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 $(4.5, \pm 1.5) (4.8, \pm 2.5) (4.8, \pm 1.5) (4.8, \pm 1.5)$ 

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# Avalon Air Transport, Inc.

NEVADA 6-9137 AVALON 385

ADMINISTRATION BLDG.. ... LONG BEACH MUNICIPAL AIRPORT

3365 LAKEWOOD BOULEVARD LONG BEACH 8, CALIFORNIA

#### LOADING INFORMATION FOR GRUMMAN G-21 AIRCRAFT

#### OPERATED BY AVALON AIR TRANSPORT

Aircraft operated with one or two pilots and no passengers or baggage will trim out very nearly in the zero position. The amount of fuel carried has little or no effect on the trim as the fuel tanks are located only slightly rearward of the aircraft empty CG.

Weight and Balance extreme conditions indicate that with two pilots, 66 gals. of fuel, full coil tanks and no passengers 250 pounds of baggage may be carried in the front baggage compartment. Under these conditions the aircraft would be extremely nose heavy and it would be impossible to land the aircraft on land without abnormal forward speed. Water landings under these conditions would be hazardous for the bow would have a decided tendency to "dish in" causing a water loop. Therefore, when the aircraft is to be flown with pilots only all baggage, uplto 800 pounds, will be carried in the cabin and the rear baggage compartment. When the baggage load exceeds 800 pounds, such as mail or special freight, it should be loaded according to the maximum loading placards in the front and rear baggage compartments and the amount of baggage over that loaded in the baggage compartments will be loaded in the aircraft seats in approximately the same weight category as if passengers were carried in the seats.

When the aircraft carries one or two passengers in the passenger compartment they shall be seated in the most rearward seats and their baggage carried in the front baggage compartment, When four ############# passengers are carried in the passenger compartment they may occupy any seats and their baggage will be carried in the front baggage compartment. When six or more passengers are carried in the passenger compartment they will be loaded to occupy the forward seats, including the co-pilot seat, first and when a full load of passengers are carried passengers will be loaded with obviously heavy passengers forward and light passengers rearward. With sixuor more passengers on board all baggage, up to the placarded limit; will be carried in the front baggage compartment.

Weight and balance extreme conditions indicate that with one pilot, one passenger in a rear seat, full tanks of oil and 175 gallons of fuel 325 pounds of baggage may be carried in the rear baggage compartment. An aircraft loaded in this condition would be extremely tail heavy, would require full nose down trim and some additional help from the pilot to hold the ship in level flight. Landings on land with this condition would present no problem because lowered speed and the application of flaps tends to override the tail heavy condition. Landings on the water under these conditions are hazardous for porpoising will surely result. Any baggage loaded in the rear baggage compartment when there are six or more passengers aboard should be confined to light weight baggage.