of Transportation

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

Form	Approve
i .	

OMB No. 2120-0020

For FAA Use Only

Office Identification

Federal	Aviation
I cuciai	AVIALIOII
Adminis	tration

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

	of this form. This re o (Section 901 of F				.S.C. 1421). Fa	llure to re	ероп	can result in a	civii pen	aity not to exc	eea \$1,000	
for each violation (Section 901 of Federal Aviation Act of 195 Make					Model							
1	Ryan					Navion B						
1. Aircraft	Serial No.	en o gerena una	and and the	204.5	Branch Communication	National	lity and	Registration Mar	k	*** * * * * * * * * * * * * * * * * *		
1 15 6.3		NAV-4-23	313B	124	roanserance 1 to	N5413K						
	Name (As shown on registration certificate)				Address (As shown on registration certificate)							
		Putney, William W III Rodgers, Gail C				5780 Balmoral Drive						
2. Owner						Oakland, CA 94619						
3. For FAA Use Only												
			Th	e data quirementormit	identified herein corents and is approved fity inspection by a pers	or the above	the ap	plicable airworthine bed aircraft, subject R 43, Section 43.7	ss to			
05-29-03 Den												
DATE SIGNATURE OAK-FSDO												
		· · · · · · · · · · · · · · · · · · ·	Suesid	4.	4. Unit Identification				5. Type			
Unit	Ma	Make and a Mode				Serial No.				Repair	Alteration	
AIRFRAME	~~~~~ (As described in Item 1 above) ~~~~~								over soft es	X		
POWERPLANT											erad (iii)	
PROPELLER		2.00 ± 7.3 7 1		. s								
	Туре									Lance Cold geri		
APPLIANCE			J							ru la greco	6-12-67 17 ⁸	
3	Manufacturer										7.032	
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			6	. Co	nformity State	ment			Server and the server	Succession of the	environts (S	
A. Agency's Nam	ne and Address				Kind of Agency	1 24			C. Cert	ificate No.		
4	Pierre Bordu	ias		X	X U.S. Certificated Mechanic							
3	875A Island Dr	. #253			Foreign Certific	cated Me	chani	С	I A	A.P. 202055	2 I.A.	
1	Alameda, CA.	94502			Certified Repa	air Station						
					Manufacturer					(建設) 19 - 18 14 12 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16		
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.												
Date 6-2-03 Signature of Authorized Individual ABorduse												
			7. Apı	prov	al for Return T	o Servic	ce	Succes				
Pursuant to the a	authority given per the Federal Aviatio	sons specified b	elow, the	e uni	t identified in ite	m 4 was	s insp	ected in the ma	anner pro	escribed by th	e	
FAA F	It. Standards Manufacturer X			Ins	The second secon			Other (Special	ecify)			
BY FAA D	esignee	Repair Station		Tr	erson Approved ansport Canada rworthiness Gro	а	. (<u>1</u> . (1.)		ang ing			
Date of Approval or Rejection Certificate or Designation No. A.P. 2020552 I.A.					Signature of Authorized Individual **Bordus**							
FAA Form 337 (12-88)												

NOTICE

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

8. Description of Work Accomplished

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

Description of alteration: This alteration removes audio switches and relays and a Bendix/King marker beacon receiver and installs a PS Engineering model PMA7000M-S Audio Selector Panel/Marker Beacon Receiver/Intercom System.

Description of work: The old marker beacon receiver and audio switching system and their wiring was removed and discarded. Installation of PMA700M-S was accomplished according to PS Engineering "PMA7000M-S Installation and Operation Manual" (manual number 200-070-0012). The PMA700M-S is mounted in the instrument panel at location 8d (see attached dwg N5413K Panel). Connections to other devices are shown in attached drawing N5413K Audio.

The existing marker beacon receiver antenna was reused for this alteration.

A dedicated 3A circuit breaker (Klixon PN: 7277-2-10) circuit breaker located in the switch panel to the left of the pilot labeled "Audio Panel" provides power to the PMA700M-S. Connections to aircraft power comply with 23.1365 "Electrical cables and equipment" (a, d, e) and 23.1357 "Circuit protective devices". After installation a check for interactions with other systems was made to comply with 23.1309 (a)(1).

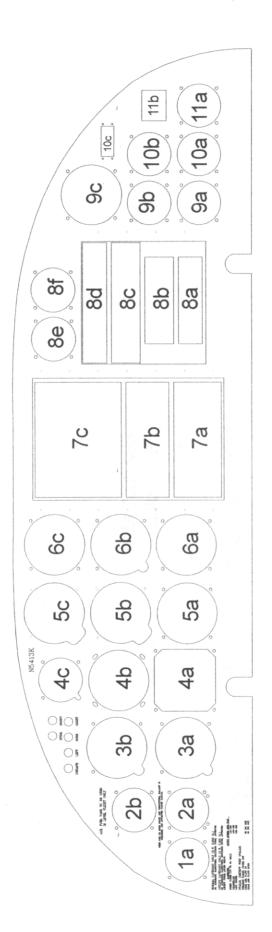
The total aircraft system electrical load does not exceed 80% of the generating capacity after this alteration.

A new weight and balance measurement in accordance with 43.13 chapter 10 has been done which includes this alteration

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

- 1) Introduction: See above (Form 337 section 8).
- 2) **Description:** See above (Form 337 section 8).
- 3) Control: Complete operational information is included in the PS Engineering "PMA7000M-S Installation and Operation Manual" (manual number 200-070-0012).
- 4) Servicing information: Not applicable.
- 5) Maintenance Instructions: Not applicable.
- 6) Trouble shooting information: Not applicable.
- 7) Removal and replacement information: The unit can be removed from its tray by turning the allen head screw in the middle of the unit's face plate counterclockwise. When free it can be pulled out.
- 8) Diagrams: Not applicable.
- 9) Special inspection requirements: Not applicable.
- 10) Application of protective treatments: Not applicable.
- 11) Data: No structural fasteners were used in the installation of this unit.
- 12) List of special tools: No special tools are required to install or maintain any components associated with this alteration.
- 13) For commuter category aircraft: Not applicable.
- 14) Recommended overhaul periods: Not applicable.
- 15) Airworthiness Limitation Section: Not applicable.
- **16) Revision:** A letter will be submitted to the local FSDO with a copy of the revised FAA Form 337 and revised ICA. The FAA inspector accepts the change by signing Block 3 of the 337.

x Additional Sheets are Attached



Material: 6061-T6

Thickness: 0.100"

Finish: Low reflectivity powder coating

SN: NAV-4-2313B N5413K Pa

Reg: N5413K

SCALE 1:5 DATE 22 May, 2003 SHEET 1 Of 1

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