	ICO Institu Carto de Ca		ieològic	IC	CGC_ML_AMP-EC	C-DTS ED1, RO		
					Aircraft ident	ification		
1 Registration(s): EC-DTS					Type: PARTENAVIA P68 OBSERVER Serial No (s		s): 324-17OBS	
	Owner: INSTTITUT CARTOGÀFIC I GEOLÒGIC DE CATALUNYA							
	Engine Type: Lycoming/ IO-360-A1B6					Propeller Type: Hartzell/ HC-C2YK-2CUF		
	Document	No: ICG	C_ML_A	MP-EC-DTS, Ed	ción 1 Revision: 0			
				Basis	for the Mainten	ance Programm	е	
2	2 Design approval Holder (DAH) Instructions Airworthiness (ICA) ☑				for Continued	Minimum Inspection Programme (MIP) as detailed in the latest revision of AMC1 ML.A.302(d))		
		(List the tasks in Appendix A						
					Revision H	listory		
3	Revision	1	Date F	Reviewed	Comments			Signature
					*Please write ' After Review No changes Required' if no changes required			
Design Approval Holder (DAH)								
				Instruction	ons for Continuin	g Airworthiness	(ICA)	
4	Equipment manufacturer and type Applicable ICA reference (revision/date not required assuming the latest revision will always used)				atest revision will always be			
					For aircraft other t	han balloons		
4a	Aircraft	VULCA P68 Ob		P68 Observer	r MM NOR 10.709-1B r MM Appendix NOR 10.7 r MM Suppl. NOR10-771- r MM Suppl. NOR10-771-	52 Wing SLL and insp. o	-	Stabilator structures" ng. Intake Filter P/N BA-162-E

ICGC-PM-ML-P68, E 1, R 0 1 02/02/2021

Lycoming Operator Manual IO-360 Series P/N 60297-12

Propeller Owner Manual No- 115N

LYCOMING

IO-360-A1B6

HC-C2YK-2CUF

HARTZELL

4b Engine

4c Propeller

P68 Observer MM Suppl. NOR10-771-58 "Low Pressure Fuel Filter" as per MOD.P68/159

Indicate if any of the following types of repetitive maintenance are included in the AMP (when replying 'YES', list the specific requirements in Appendix B to this Aircraft Maintenance Programme)			No
Maintenance due to specific equipment and modifications		х	
Maintenance due to Installed STCs			
Maintenance due to repairs implemented in the aircraft)
Maintenance due to life-limited components (this should be only if the MIP is used. Otherwise, this data is already part of the DAH's data used as a basis for the AMP).			
Maintenance due to Mandatory Continuing Airworthiness Information (Airworthiness Limitation Items (ALIS), Certification Maintenance Items (CMRs), specific requirements in the Type Certificate Data Sheet (TCDS), etc)			,
Maintenance due to repetitive Airworthiness Directives		х	
	Maintenance due to specific operational/airspace directives/requirements (altimeter, compass, transponder, etc.) – refer to latest national requirements in IANO3b)
	Maintenance due to the type of operation or to operational approvals:		
	- Night Flying		
	- Instrument Rating (IR)		,
	- Performance Based Navigation (PBN)		1
	- Spins		
	- other		
	Other	х	

Pilot-	owner maintenance (only for balloons not op operated under Subpart-DEC, or other	•	lanes	not			
	*Remark: pilot-owner maintenance is not allowed fo	or aircraft operated by a commercial ATO/DTO					
	Does the Pilot-owner perform Pilot-owner maintenance (ref. ML.A.803)?						
7	If yes, enter the name of the pilot-owner(s) authorised to p	erform maintenance:					
	Pilot-owner name: (NOTE) Li	cence Number <u>: (NOTE)</u>					
		ate:					
	NOTE: It is possible to refer to a list in the case of jointly o						
	Approval/declaration of the Maintenance Pro	gramme (select the appropriate option)					
	Declaration by the owner:	Approval by the contracted CAMO/CA	.o: 🛛				
8	'I hereby declare that this is the maintenance programme applicable to the aircraft referred to in block 1, and I am fully responsible for its content and, in particular, for any alternative tasks to the DAH's data.'	Approval reference no of the CAMO/CAO: ES.N	1G.116				
	Signature/name/date:	Signature/name/date:					
	Certification s	tatement					
9	9 'I will ensure that the aircraft is maintained in accordance with this maintenance programme and that the maintenance programme will be reviewed and updated as required'.						
Signed by the person/organisation responsible for the continuing airworthiness of the aircraft according to N							
	Owner/Lessee/operator CAMO/CAC						
	Name of according to the second of the secon	washers FC MC 11C					
	Name of owner/lessee/operator or CAMO/CAO approval n Address: Institut Cartogràfic i Geològic de Catalunya, Parc o						
	Telephone/fax: +34 935 67 15 00	te Workfale 3/11, 00030, Barcelona					
	E-mail: jorge.hernandez@icgc.cat						
	Signature/Date:						
10	Appendices attached:						
	— Appendix A YES □ NO ☒						
	— Appendix B YES ⊠ NO □						
	— Appendix C YES □ NO ☑						
	— Appendix D YES ⊠ NO □						

Appendix B - Additional Maintenance Requirements

(include only if necessary, see Section 5 above)

This appendix is supposed to include only the tasks which are included in the AMP, either at the recommended interval or at a different one.

(All repetitive maintenance tasks not included here, or the interval differences should be kept by the CAMO/CAO (when contracted) in their files with their corresponding justifications. Appendix D may optionally be used. Nevertheless, the owner/CAMO/CAO is responsible for taking into account all instructions, even if they are not adopted and listed here. The person performing the AR, if reviewing the AMP, is not responsible for the completeness of this appendix, but may do some sampling as part of the investigations and the findings discovered during the physical review)

Task Description	References	Interval
		(tick box if the selected interval differs from that required in the referenced document)
Maintenance due to specific equipment an	d modifications	
Inspect Alternators (Lycoming P/N 32C19553 - HET ALU8521LS)	OE-A2. Hartzell Engine Technologic OH Man. Aircraft Alternator & Starter Periodic Inspect	
Replace #1 & 2 Vacuum Relief Valve Filter Element B3-5-1	Parker Service Letter 59B Replacement Times for Airborne Air Filters and Air Filter Elements	
Inspect Aspen EFD 1000 (100Hrs)	ICA EFD 1000 ASPEN Document # 900-00012-001	
Visual Inspection & Test EFD Internal Battery (EFD P/N 910-00001-001)	ICA EFD 1000 ASPEN Document # 900-00012-001	
Anual Insp. KANNAD - ELT 406 AF. Check iaw Inst/Operation Manual	DOC08038F Installation Manual /Operation Manual Kannad 406 AF	
Insp. A/C Main Battery Capacity Check	Gill Dry-Charge Battery Maintenance Manual Q01- 1120	
Vis. Insp. Fire Extinguisher Cylinder Anual Insp (charge, weight, Hydrost. Test date)	Standard Practices	
Vacuum Pump Inspection (Tempest Series 3200) Port Indicator Insp.	Tempest SB 008 Rear Port Wear Indicator Instr.	
100/500 HRS Alternator Inspect. (as per Lyc. P/N 32C19553 - HET ALU8521LS)	OE-A2. Hartzell Engine Technologic OH Man. Aircraft Alternator & Starter Periodic Inspect	
Slick Magneto Inspection	LYC SL L173 Slick SB2-80C, "Magneto Maint. & OVH Schedule"	
Cylinder Compression measuring the static leak.	Lycoming SI -1191A Cylinder Compression	
Insp. Engine Muffler Assy p/n 6.1033-3/4	Vulcanair S/B No 83 Muffler Assy p/n 6.1033-3/4	
Stabilator Tube Attach Shelves	Vulcanair S/B No 91 Stabilator Tube Attach Shelves	
Operational Check of Fuel Selector Control System	Vulcanair S/B No 113 Fuel System	
Visual Insp. Fuel line and support clamp inspection & installation.	Lycoming S/B No 342G Fuel line (Stainless Steel Tube Assy.) and Support Clamp Insp. & Installation.	
Inspect Exhaust Valve and Guide Condition to insure positive and trouble- free valve train operation.	Lycoming S/B No 388C Procedure to Determine Exhaust Valve and Guide Condition	
Maintenance due to repairs implemented	in the aircraft	
Pre-flight Additional inspection relative to camera installation on Partenavia P68 Observer EC-DTS	ICGCDTA-003 Suplemento a la Inspección Prevuelo Aeronave Partenavia P68 Observer EC-DTS	

Maintenance due to life-limited componer the DAH's data used as the basis for the Al	nts (This should only be used if the MIP is used. Other MP).	wise, this data is already part of
Maintenance due to Mandatory Continuin	g Airworthiness Instructions (ALIs, CMRs, specific requ	irements in the TCDS, etc.)
Maintenance due to repetitive Airworthine	ess Directives	
AD-IT-89-071 Incorrect installation engine mount bolts	AD-IT-89-071 Incorrect installation engine mount bolts - S/B 76 Engine Mount Installation	
AD-IT-91-125 Control P/N 6.1033-3/4 condition	AD-IT-91-125 - S/B 83 Muffler assy P/N 6.1033-3/4	
AD-IT-91-453 Eng. Mount Wing Attachment	AD-IT-91-453 R4 - S/B 70R2 Sect 3. Inspect. Eng. mount/wing attach. bracket	
AD-IT-92-155 Inspect Stabilizer/ Torque tube	AD-IT-92-155 / S/B 87 Stabilizer. Torque tube	
AD-IT-1996-337 Flight Control Cable Insp.	AD-IT-1996-337 / S/B 75 R1 Flight Control Cables	
AD-IT-2002-415 / Fuel System /Selector control system inspection	AD-IT-2002-415 / S/B 113 Fuel System	
AD-2015-19-07 Fuel Injected Reciprocating Engines par. (e)(1)(ii)	AD-2015-19-07 par. (e)(1)(ii) (Lyc.)/Fuel Lines (S/B 342	
Maintenance due to the National Requirer	nents (See IAN03b, and list only what is applicable)	
Maintenance due to the type of operation	or operational approvals	
Other		
Pre-flight Additional inspection relative to camera installation on Partenavia P68 Observer EC-DTS	ICGCDTA-003 Suplemento a la Inspección Prevuelo Aeronave Partenavia P68 Observer EC-DTS	

Appendix D - Additional Information (optional)

This appendix may optionally be used to provide additional information, such as the complete list of AMP tasks or the list of documents (e.g. Service Bulletins) considered during the development of the AMP.

VULACANAIR Additional Instructions used for AMP.

P68 Observer AFM - NOR 10.707-3

S/B 83 Muffler Assembly LH and RH P/N 6.1033-3/4

S/B 91 Stabilator. Torque Tube Att. Shelves: Flap and Ail. Hinge Shelves

S/B 93 Inspection Wing Box Internal Area Between Ribs No. 6 And 8

S/B 113 Fuel System

S/B 162 Wing Safe Life Limit & Special Inspections

S/I 70 Stabilator control System (Rigging Procedures)

S/I 73 Maintenance Procedures for Fuel Selector Valve P/N NV7.001-59C

S/I 91 R1 Procedure to check Stabilator Torque Tube by NDT methods.

S/I 96 Fuel Tank Cleaning

S/L 31 Lubrication

LYCOMING Additional Instructions used for AMP.

Lycoming SI 1009 Overhaul, Recommended TBO

Lyc SB 240 Mandatory Parts Replacement at Overhaul and during repair or maintenance

Lyc SI 1014 Lubricating Oil Recommendations

Lyc S/B No 342G Fuel line (Stainless Steel Tube Assy.) and Support Clamp Insp. & Installation.

Lyc S/B No.342G Supp. 7 Fuel Line.

Lyc SL L173C Slick Electro SB2-80C, "Magneto Maintenance & Overhaul Schedules"

Lyc SI -1191A Cylinder Compression

HARTZELL Additional Instructions used for AMP.

Hartzell HC-SL-61-61Y Propeller - Overhaul Periods and SLL

Additional Instructions used for AMP.

DOC08038F Installation Manual /Operation Manual Kannad 406 AF

S/L S1840501-25-05 Guidelines for Periodic Inspection Kannad 406 AF

ICA P/N 81511 Form 8640 - S-TEC Systems 40/50, Autopilots

ICA EFD 1000 ASPEN Document # 900-00012-001

ICGCDTA-003 Suplemento a la Inspección Prevuelo Aeronave Partenavia P68 Observer EC-DTS

25001. SkyTech Starter Instructions for Installation

OE-A2. Hartzell Engine Technologic OH Man. Aircraft Alternator & Starter Periodic Inspect

SL 003 Tempest Vacuum Pump TBO New Manufactured Pumps

SB 008 Tempest Rear Port Wear Indicator Instructions

Rapco Service Letter RASL-001 Pneumatic pump vane inspection with S.M.A.R.T Stick

Rapco Service Letter RASL-005 Recommended replacement for Rapco, Inc. pneumatic pumps.

Parker SL 59B Replacement Times for Airborne Air Filters and Air Filter Elements

Gill Dry-Charge Battery Maintenance Manual Q01-1120

SB 33580 Woodward Governor TBO

Applicable Airworthiness Directives with recurrent intervals included in the AMP.

AD-IT-89-071 Incorrect installation engine mount bolts

AD-IT-91-125 - S/B 83 Muffler assy P/N 6.1033-3/4

AD-IT-91-453 R4 / S/B 70R2 Sect 3. Inspect. Eng. mount/wing attach. bracket

AD-IT-92-155 / S/B 87 Stabilizer. Torque tube

AD-IT-1996-337/ Flight Control Cable Insp / S/B 75 R1 Flight Control Cables

AD-IT-2002-415 / Fuel System (S/B 113)

AD-2015-19-07 Lycoming Eng. Fuel Lines. par. (e)(1)(ii) (Lyc.)/Fuel Lines (S/B 342) (not more than 110 Hrs TIS)

MAINTENANCE INSPECTIONS/TASKS APPLICABLE TO EC-DTS	Inter	val
WAINTENANCE INSTECTIONS/TASKS ATTEICABLE TO EC-DTS	Н	M
AMM Minor Inspection	50	6
Inspection 50 / Engines. iaw Lycoming Operator Manual O-360.	50	
AMM 100 Hours /12M Inspection (Covers tasks from AMM Table 3.1 "Inspection Chart")	100	12
AMM 200 Hours Inspection (Covers tasks from AMM Table 3.1 "Inspection Chart")	200	
Periodical Inspection Hartzell Propeller 100 Hrs	100	12
Inspection 50 +100 Engines. iaw Lycoming Operator Manual O-360.	100	
Cylinder Compression Measure Lycoming SI -1191A	100	
AMM Supplement NOR10.771-58 - Inspect Low Pressure Fuel Filter NV7.003-45	100	
AMM Supplement NOR10.771-27 - Replace Eng. Air Intake Filter BA-162-E	100	
AMM Supplement NOR10,771-52 - Check Stabilator Inside as per NOR10.771-52	500	N/A
AMM Supplement NOR10,771-52- (Table 2-4) - Check Wing Front Spar Repaired as Drw. 0441	1500	60
AMM Supplement NOR10,771-52 - Check Wing Front and Rear Spar as per NOR10,771-52)	6000	N/A
	500	24
AMM NOR10.709.1B / TEMPORARY REVISIO TR-005 Wing Engine mount Attach Brackets	300	24
<u>Airframe</u>	21/2	10
Aircraft Weight & Balance as per AFM	N/A	48
AMM SPC #21 CALIBRACIÓN PITOT-STATICA	N/A	24
AMM SPC #21 CALIBRACIÓN BRÚJULA	N/A	24
AMM SPC #21 CALIBRACIÓN TRANSPONDER	N/A	24
AMM SPC #31 STABILATOR TORQUE TUBE NDT (SI 91)	1500	60
AMM SPC #34 FUEL TANK CLEAN INSIDE	500	24
AMM SPC #37 WING /FSLGE ATTACH. BOLTS AND BRACKETS- Check cond.	1500	60
AMM SPC #38a WING SPAR AND RIBS. Check A/C modified by S/B65 iaw S/B No 93	500	24
AMM SPC #39 WING ENGINE MOUNT ATTACH. BRACKETS, Check Cond.	1000	48
Flight Controls		
AMM SPC #3 AILERON MASS, BALANCE WEIGH -Check	1000	48
AMM SPC #4 RUDDER Check Hinges	200	12
AMM SPC #8 RUDDER MASS BALANCE WEIGHT	1000	48
AMM SPC #15 STABILATOR MASS WEIGHT & BALANCE- Check	1000	48
Landing Gear	1000	40
AMM SPC #7 CENTER FUSELAGE /LEG ATTACHMENT BOLT	500	24
·	500	24
AMM SPC #11 WHEEL ALIGNMENT - Check	300	24
Engine Add CRO (47/4) ENGINE MOUNT POUT INCRESTION	2000	40
AMM SPC #17(A) ENGINE MOUNT BOLT INSPECTION	2000	48
AMM SPC #19 OIL COOLER / REMOVE AND WASHING	500	24
AMM SPC #20 VALVES ROCKERS INSPECTION	400	
Inspections/Tasks Applicable to Installed Components		
CMM Inspect Alternators (Lycoming P/N 32C19553 - HET ALU8521LS)	100	
CMM Replace #1 & 2 Vacuum Relief Valve Filter Element B3-5-1	100	12
AMM Replace #1 & 2 Vacuum Relief Valve Filter Element D9-18-1	500	
CMM Inspect Aspen EFD 1000 -100Hrs (iaw ICA CHK LIST)	100	12
CMM Visual Inspection & Test EFD Internal Battery (EFD P/N 910-00001-001)	100	12
CMM Anual Insp. KANNAD - ELT 406 AF. Check iaw Inst/Operation Manual	N/A	12
CMM SPC Visual Insp. Fire Extinguisher Cylinder Anual Insp (charge, weight, date for Hydrost. Test)	N/A	12
CMM SPC Insp. A/C Main Battery Capacity Check	400	6
CMM 100/500 HRS ALTERNATOR INSPECT. (as per Lycoming P/N 32C19553 - HET ALU8521LS)	500	24
CMM 500 HRS SLICK MAGNETO INSPECTION	500	
CMM 600 HRS VACUUN PUMP INSPECTION (TEMPEST Series 3200) Port Indicator Insp.	600	
A/Ds with recurrent intervals applicable to airframe, engines and components		
AD-IT-91-125 - S/B 83 Muffler assy LH and RH P/N 6.1033-3/4	200	
AD-IT-91-125 - 3/6 85 Mujjier ussy En unu Kn P/N 6.1055-3/4 AD-IT-91-453 R4 / S/B 70R2 Sect 3. Inspect. Eng. mount/wing attach. bracket	500	24
		24
AD-IT-92-155 / S/B 87 Stabilizer. Torque tube	200	12
AD-IT-1996-337/ Flight Control Cable Insp / S/B 75 R1 Flight Control Cables	100	12
AD-IT-2002-415 / Fuel System (S/B 113)	100	
AD-2015-19-07 par. (e)(1)(ii) (Lyc.)/Fuel Lines (S/B 342) (not more than 110 Hrs TIS)	100±10	
<u>Applicable Service Instructions with recurrent intervals</u>		
Vulcanair S/B No 83 Muffler assy LH and RH p/n 6.1033-3/4	200	
Vulcanair S/B No 91 Stabilator Tube Attached Shelves	200	12
Vulcanair S/B No 113 Inspect Operational Check of Fuel Selector System	100	1

Lycoming S/B No 342G Fuel line and support clamp inspection & install.	100	
Lycoming S/B No 388C Procedure to determine Exhaust Valve and Guide Condition	1000	

		INTERVALS	
DESCRIPTION	P/N	TYPE	HRS/ MONTHS
Wing Life Limits iaw EASA AD-2010-0051 AMM Supp. NOR10.771-052		N/A	23900 H
PFD ASPEN EFD 1000 Internal Battery (EFD p/n 910-00001-001)	409-00003-001	N/A	2000 H/36 M
ELT Battery Kit BAT200	S1840510-01 (Am E)	N/A	72
Vacuum System Filter (Replacement)	D9-18-1	A	500 H
Vacuum Pump Parker Serie RA215CC-REPLACEMENT	NOR7.289-7	N/A	72 M
Vacuum Pump Tempest (SERIE 3200) (SL-003-1) - REPLACEMENT	AA3215CC	N/A	1000 H /72M
Engine Air Intake filter iaw NOR 10.771-27 AMM Supplement	BA-162-E	A	100 H /12M
Propeller Overhaul (Hartzell)	HC-C2YK-2CUF	Ε	2000 H /72 M
Governor N1(Woodward)	C210655 Rev. K-L/P	Ε	2000 H
Engine Overhaul	LYC IO-360-A1B6	Ε	2000 H/144 M
Slick Magnetos Mod. 4372	66GC15SFNN	E	2000 H/144 M
Injector (Avstar)	61J26426	E	2000 H/144 M
Crankcase Match	BB5212	E	2000 H/144 M
Ignition Harness Left (Slick)	67P20413	E	2000 H/144 M
Ignition Harness Right (Slick)	67P20412	Ε	2000 H/144 M
Spark Plug (Champion)	1182-E7	Ε	2000 H/144 M
Starter (Sky-Tech)	149NL	Ε	2000 H/144 M
Fuel Pump (Lyc)	LW-15473	E	2000 H/144 M
Slick Magneto Mod. 4372	66GC15SFNN	E	2000 H/144 M
Slick Magneto Mod. 4370	66GP-0SANN	E	2000 H/144 M
Alternator Hartzell (Lyc LW-14326, Assy. 32C19553)	ALU 8521LS	Ε	2000 H
Engine Support Bushings		E	2000 H
Engine Support Mounts OH		E	2000 H
Shock Mount Assy (Upper) (Qty 2)	NOR7.155-1A	E	2000 H
Shock Mount Assy (Lower) (Qty 1)	NOR7.155-1B	E	2000 H
Bolt (Qty 8)	MS20006-12	E	2000 H
Bolt (Qty 8)	MS20007-64	E	2000 H
Washer (Qty 8)	MS20002C6	E	2000 H
Washer (Qty 10)	MS20002C7	E	2000 H
Washer (Qty 8)	NAS1149F0632P	Ε	2000 H
Nut (Qty 8)	MS21042-6	Ε	2000 H
Nut (Qty 8)	MS21042	Ε	2000 H
Anchor Nut (Qty 8)	NOR9.181-1B	Ε	2000 H
Engine Flexible Oil & Fuel Hoses (Qty 1)	NOR7.401-1	E	2000 H/ 60 M
Engine Flexible Oil & Fuel Hoses (Qty 1)	NOR7.401-2	Ε	2000 H/ 60 M
Engine Flexible Oil & Fuel Hoses (Qty 2)	NOR7.407-1	Ε	2000 H/ 60 M
Engine Flexible Oil & Fuel Hoses (Qty 1)	NOR7.403-1	E	2000 H/ 60 M
Engine Flexible Oil & Fuel Hoses (Qty 1)	NOR7.403-6	Ε	2000 H/ 60 M
Engine Flexible Oil & Fuel Hoses (Qty 4)	NOR7.405-1	Ε	2000 H/ 60 M
Engine Flexible Oil & Fuel Hoses (Qty 1)	NOR7.411-4	Ε	2000 H/ 60 M
Engine Flexible Oil & Fuel Hoses (Qty 1)	NOR7.411-2	E	2000 H/ 60 M
Tube (Qty 2)	NOR7.439-4	E	2000 H/ 60 M
Life Vest Eam Worldwide	P01202-201W	N/A	120 M
Fire Ecxting.: Charge & Hydrostatic test (C352TS)	BA51015G-3	N/A	72 M