Attachment - A

MAINTENANCE PROGRAM CHECKLIST

The purpose of this Maintenance Program Compliance Checklist is to assist owners /operators/ inspectors of CAAB with a view to ensuring that Maintenance Programs are standardized and include all items that are required by CAAB Part-M M.A.302, AMC M.A. 302 and also other additional CAAB required items. This Checklist should be submitted along with draft maintenance program by the operator for review by CAAB.

This document includes all the relevant information as detailed in Appendix 1 to the Acceptable Means of Compliance (AMC), the format of which may be modified to suit the operator's preferred method. In all cases the checklist should clearly show both compliance (Yes) and location of the compliance in the notes section or not applicable (N/A) and the reason in the notes section. Verification remarks column to be used by CAAB inspector while reviewing the Draft AMP for approval.

The specific tasks and the relevant control procedures shall be included as specified in the Aircraft Maintenance Program (AMP) or Continuing Airworthiness Management Exposition (CAME) of the operator / Subpart G organization managing the aircraft. The relevant cross-references shall be specified in the notes column at the appropriate paragraphs and the correct term AMP or CAME shall be used. It is not acceptable simply enter the AMP or CAME as the cross reference.

The checklist is provided to ensure the minimum required items are contained in the Maintenance Program. It should be enhanced as necessary to suit the aircraft's needs; operational, utilization, regulation and environmental.

AOC Number (If applicable):	
Owner / Operators Name:	
CAME reference (If applicable)	
Owner / Operator AMP reference	
Amendment Status	
Details of the previous	
maintenance program	
Registration No of aircraft	

1.Gener	1.General requirements						
Items No.	Check list points	Complied	N/A	Notes	Verification		
1.1	Maintenance Program basic Information				·		
	The type/model/ and registration number of the aircraft						
	The type/model of the engines						
	The type/model of the propeller where applicable						

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1.1.1	The type/model of the auxiliary power units(APU) where applicable			
1.1.2	The name and address of the owner, operator, or AOC holder/CAMO managing the aircraft airworthiness			
1.1.3	The program reference, the date of issue and issue number			
1.1.4	A Signed statement by the owner, operator or AOC holder/CAMO managing the aircraft airworthiness (see Appendix 1 of this document)			
1.1.5	Content list / Index List of effective pages and their Revision status of the document			
1.1.6	Check periods for anticipated utilization; include a utilization tolerance of not more than 25% (Where utilization cannot be anticipated, calendar time limits should also be included)			
1.1.7	Procedures for escalation of established check periods where applicable and acceptable to the CAAB			
1.1.8	Records of amendments w.r.t MPD revisions			
1.1.9	Pre-flight maintenance tasks			
	The tasks and the periods (intervals / frequencied out, including type and degree of in a. Aircraft		pections should	d be
	b. Engine(s)			
	c. APU			
	d. Propeller(s)			
1.1.10	e. Components			
	f. Accessories			
	g. Equipment			
	h. Instruments			
	i. Electrical and radio apparatus			

	The periods at which components should be	e:			
	a. Checked				
	b. Cleaned				
	c. Lubricated				
1.1.11	d. Replenished				
	e. Adjusted				
	f. Tested				
1.1.12	Details of ageing aircraft system requirements with any specified sampling programs, if applicable				
	Details of specific structural maintenance limited to:	ce programs,	if applicable	, including bu	it not
1.1.13	a) Damage Tolerance and Supplemental Structural Inspection Programs (SSID)				
	b) SB review performed by the TC holder				
	c) Corrosion prevention and control d) Repair Assessment				
	e) Widespread Fatigue Damage				
1.1.14	Statement of the limit of validity in terms of total flight cycles/calendar date/flight hours for the structural program in 1.1.13, <i>if applicable</i>				
1.1.15	The periods at which overhauls and/or replacements of components should be made				
	A cross-reference to other documents relate	ed to:			
	a) Mandatory life limitations.				
1.1.16	b)Certification Maintenance Requirements (CMR's), if Applicable				
	c)Airworthiness Directives (AD) Specific identification of the above items mandatory status				
1.1.17	Reliability program or statistical methods of continuous Surveillance, <i>if applicable</i>				
1.1.18	A statement that practices and procedures should be the standards specified by the TC holder				
1.1.19	Each maintenance task should be defined in a definition section				

1.1.20	If applicable, details of Critical Design				
	Configuration Limitations together with				
	appropriate procedures				
2. Prograi	n basis		•	•	
2.1	Is the program based upon the				
	MRB report (where applicable), the TC				
	holder's maintenance planning document				
	or of Chapter 5 of the maintenance				
	manual?				
2.2	For newly type-certificated aircraft				
	/comprehensively appraise the				
	manufacturer's recommendations				
	(MRB report) along with other				
	airworthiness information.				
2.3	For existing aircraft types,				
	comparisons with maintenance				
	programs previously approved				
	programs providently approved				
3. Amendi	ments	I	1		
	Amendments (revisions) to reflect changes	:See Append	ix 2		
		P.F.			
	a. In the TC holder's				
3.1	recommendations				
	b. Introduced by modifications				
	,				
	c. Introduced by repairs				
	d. Discovered by service experience				
	1				
	e. As required by the CAAB				
	•				
4. Permitte	ed variations to maintenance periods	1		•	
	•				
4.1	Vary the periods through a procedure				
	approved by the CAAB?				
4.2	Vary the periods with the approval of				
	the CAAB				
5.Periodic	review of maintenance program contents				
	Periodic review to ensure that the progra	m reflects curr	ent:		
	a. TC holder's recommendations				
	b. Revisions to the MRB report (if				
5.1	applicable)				
	c. Mandatory requirements				
	d. Maintenance needs of the aircraft				
5.2	Annual review of AMP is defined				
1	1	1	1	1	

6.Reliab	oility programs				
6.1	Applicability				
	Developed in the following cases:				
	a) Program is based upon MSG-3 logic				
	b) Program includes condition monitored components				
6.1.1	c) Program does not contain overhaul time periods for all				
	significant system components				
	d) Specified by the manufacturer's MPD or MRB				
	Need not be developed in the following cas	ies			
	a) Program is based upon the MSG-1 or 2 logic (only contains hard times or on condition items)				
	b) Not a complex motor-powered aircraft according to CAAB PART-M				
6.1.2	c) Program provides overhaul time periods for all significant system components				
6.1.3	Operator may develop own reliability monitoring program (when it may be deemed beneficial from a maintenance planning point of view.)				
6.2 App	licability for AOC HOLDER/CAMO/operator of	f small fleets o	f aircraft		
6.2.1	Less than 6 aircraft of the same type				
6.2.2	Reliability program is irrespective of the fleet size		1		
6.2.3	AOC HOLDER/CAMOs tailor their reliability program to suit the size and				
6.2.4	Use of "Alert levels" should be used carefully				
	For small fleet of aircraft while establishing following	g a reliability	program, co	onsider the	
6.2.5	a) Focus on areas where a sufficient amount of data is likely to be processedb) How is engineering judgment applied?				
6.2.6	Pool data and analysis (paragraph 6.6 specifies conditions)				
6.2.7	If unable to pool data, additional restrictions on the MRB/MPD tasks intervals specified.				
6.3 Eng	gineering Judgment				

	Are there appropriately qualified				
6.3.1	personnel (with appropriate				
	engineering experience and				
	understanding of reliability concept) for				
	the reliability program?				
6.3.2	Failure to provide appropriately				
	qualified personnel for the reliability				
	program may lead to rejection of				
	aircraft maintenance program				
6.4 Contra	cted maintenance				1
6.4.1	AOC HOLDER/CAMO may sub contract ce	rtain functions	of Mair	ntenance program t	o other
	maintenance organization (provided this org	anization prove	es to ha	ve the appropriate	
	expertise.) Such as	-			
6.4.2	a) Developing the maintenance and				
	reliability programs				
	b) Collection and analysis of the				
	reliability data				
	c) Providing reliability reports				
	d) Proposing corrective actions				
	, ,				
6.4.3	Approval to implement a corrective				
	action, is AOC HOLDER/CAMO				
	prerogative and responsibility				
6.4.4	Maintenance contract must be clearly				
	spelt out in CAME, and maintenance				
	organization procedures				
6.5 Reliabi	ility program.	•		1	
6.5.1	Objectives				
	Statement summarizing the prime objective	es of the progra	am (To	the minimum it	
	should include the following)				
	a) Recognise the need for corrective				
(511	action				
6.5.1.1	b) Establish what corrective action is				
	needed				
	c) Determine the effectiveness of that				
	action				
6.5.1.2	The extent of the objectives should be				
	directly related to the scope of the				
	program (manufacturer's maintenance				
	planning documents should be				
	consulted in every case)				
6.5.1.3	All MSG -3 related task are effective				
_	and their periodicity is adequate				
6.5.2 Iden	tification of items	1			
0.0 .2 .4011					
6.5.2	The items controlled by the				
	program should be stated (e.g. by				
	ATA Chapters)				
6.5.3 Term	ns and definitions.				

6.5.3	Significant terms and definitions should be clearly identified						
6.5.4 Information sources and collection							
6.5.4.1	Sources and procedures for collecting and receiving it in the Exposition						
	Type of information to be collected should be of the normal prime sources:	related to th	e obje	ctives of program,	Examples		
	a) Pilots Reports						
	b) Technical Logs						
	c) Aircraft Maintenance Access Terminal / On-board readouts						
6.5.4.2	d) Maintenance Worksheets						
	e) Workshop Reports						
	f) Reports on Functional Checks						
	g)Reports on Special Inspections						
	h) Stores Issues/Reports						
	i) Air Safety Reports						
	j) Reports on Delays and Incidents						
	K) Other sources: i.e. ETOPS, RVSM, CAT II/III						
6.5.4.3	Due account of Continuing						
	Airworthiness information, safety information promulgated under CAR-21						
6.5.5 Displ	ay of information						
6.5.5	Information displayed graphically or in tabular format or a Combination						
6.5.5. 1	Provisions for "nil returns"						
6.5.5.2	Where "standards" or "alert levels", display of information oriented accordingly						
6.5.6 Exan	nination, analysis and interpretation of the infor	mation					
6.5.6	Method for examining, analyzing and interpreting the program information should be explained.						

6.5.6.1	Methods of examination may be varied - content and quantity-	
	Analysis & Interpretation- The whole process should the effectiveness of the program as a total activity. Su	
	a) Comparisons of operational reliability with established or allocated standards	
	b) Analysis and interpretation of trends	
	c) Evaluation of repetitive defects	
	d) Confidence testing of expected and achieved results	
6.5.6.2	e) Studies of life-bands and survival characteristics	
	f) Reliability predictions	
	g) Other methods of assessment	
	h) Stores Issues/Reports	
	i) Air Safety Reports	
	j) Reports on Delays and Incidents	
	K) Other sources: i.e. ETOPS, RVSM, CAT II/III	
	Range and depth of engineering analysis should be related and to the facilities. The following, at least, should be tall	
	a) Flight defects and reductions in operational reliability	
	b) Defects - line and main base.	
	c) Deterioration observed -routine maintenance	
6.5.6.3	d) Workshop and overhaul facility findings.	
	e) Modification evaluations	
	f) Sampling programs	
	g) Adequacy of maintenance equipment and publications	

	h) Effectiveness of maintenance			
	procedures			
	i) Staff training			
	j) Service bulletins, technical			
	instructions etc.			
6.5.6.4	In case of Contracted maintenance -			
	arrangements for availability of			
	information should be established and			
	details should be included			
6.5.7 Corre	rective Actions			
	Procedures / time scales for implementing corr	rective action	s / monitoring – sl	nould
	be fully described & could include		Č	
	a) Changes to maintenance,			
	operational procedures or techniques			
	b) Changes involving amendment of the			
	scheduled maintenance period or			
	task in the approved maintenance			
	program			
	c) Amendments to approved manuals			
6.5.7.1	o) Timenaments to approved mandais			
	d) Initiation of modifications			
	e) Special inspections of fleet			
	campaigns			
	f) Spares provisioning			
	g) Staff training			
	h) Manpower and equipment planning			
6.5.7.2	Procedures for effecting changes			
	should be described			
6.5.8 Orga	anizational Responsibilities	L		
8	1			
6.5.8	Organizational structure - chains of			
	responsibility should be defined			
6.5.9	Presentation of information to the competent at	uthority		<u> </u>
	Following information submitted to the CAAB		l of the reliability pro	ogram
	a) Time scales for reports / distribution	1		
	, ·			
	b) Format and content of reports of			
	supporting request for increase in period			
	between maintenance			
	(Escalation)			
L	1 \ /		1	ı

	c) requesting amendments						
6.5.10 Evaluation and review							
6.5.10	Describe procedures and individual responsibilities- continuous monitoring of the effectiveness of the program						
6.5.10.1	Procedures for monitoring/ revising the reliability "standards" or "alert levels						
	Criteria to be taken into account during the re-	view includes	S				
	a) Utilization (high / low / Seasonal)						
	b) Fleet commonality						
	c) Alert Level adjustment criteria						
6.5.10.2	d) Adequacy of data						
	e) Reliability procedure audit						
	f) Staff training						
	g) Operational and maintenance procedures						
6.5.11	Approval of maintenance program amendmen arising from the reliability program	t Approval	of ma	intenance program	changes		
	a) Does the reliability program monitor the content of the maintenance program in a comprehensive manner?						
	b) Is appropriate control exercised by the						
	owner / operator over the internal validation of such changes						
6.6 Pooling	g Arrangements						
	Pooling information - must be substantially	y the same, i	ncludi	ng:			
6.6.1	a) Certification / modification / SB compliance						
	b) Operational Factors						
	c) Maintenance factors						
6.6.2	Is there a substantial amount of commonality / has the CAAB agreed?						

6.6.3	Is the aircraft on short-term lease?				
0.0.3					
	CAAB may grant more flexibility				
6.6.4	Changes to any AOC HOLDER/CAMO				
	requires				
	assessment in Order that the pooling				
	benefits can be maintained				
6.6.5	Reliability program managed by the				
	aircraft manufacturer if agreed by the				
	CAAB				
7. CA	AB Required Items	<u></u>			
7. CA	AD Required Items				
7.1	Details of who may issue a CRS	1			
/.1	Details of who may issue a CRS				
7.2	Define which inspections / checks are				
7.2	considered to be base maintenance				
	considered to be base maintenance				
7.3	Define maintenance as requirements, in				
7.3	Define maintenance requirements, in				
	the absence of specific recommendations in				
	MPD/Chapter 5 of AMM				
7.3.1	Aircraft battery capacity check/deep				
	cycle? (As per Vendor				
	recommendation)				
	,				
7.3.2	Emergency equipment as per vendor				
,	recommendations				
	recommendations				
	Emergency escape provisions as per vendor re	l naamman dat	ions for th	a fallowing	
		commendat	ions for u	le following	
	equipments:				
	D + 11 12 + 120 0	T			
7.3.3	a. Portable valise type life-rafts				
7.5.5					
	b. Door & escape chutes/slides				
	c. Emergency exits / hatches				
7.3.4	Flexible hoses as per CAR Sec 2				
	Series S Part I				
	Series S Tart I				
7.3.5	Fuel / oil system contamination checks	 			
7.3.3					
	CAR Sec 2 Series H Part II				
50.5		<u> </u>			
7.3.6	Pressure vessels as per vendor				
	Recommendation	1			
7.3.7	Seat belts and harnesses as per vendor				
	Recommendations	1			
7.3.8	Instruments as per Sec 2 Series I Dort I				
1.3.8	Instruments as per Sec 2 Series I Part I				
7.3.9	Vital points and control systems				
	(procedure for duplicate inspection)				
	1 d				

	Maintenance applicable to special operations approvals, if applicable (Additional maintenance task required to ensure continued compliance with following special approvals):				
	AWOPS				
7.3.10	MNPS				
	RVSM				
	ETOPS				
	Sea Pilot transfers				
	Offshore operations				
	HEMS				
	Transport of dangerous goods				
	Other (Specify)				
7.3.11	Customer furnished equipment				
7.3.12	Engine & APU condition monitored maintenance				
7.3.13	CAAB Mandatory Modification requirements/AD's				
7.3.14	Flight data recorder systems (As per Sec 2 Series I Part V)				
7.3.15	Mode "S/C" transponder (As per Sec 2 Series R Part IV)				
7.3.16	In-flight entertainment systems (IFE) (As per vendor recommendation)				
7.3.17	Cock Pit Voice Recording System (As per Sec 2 Series I Part VI)				
7.3.18	Emergency Locator Beacon (ELT)(As per vendor recommendation)				

Completed by: [Name]	Signed:		
	Date:		