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PROGRAM ODRŽAVANJA ZRAKOPLOVA (POZ)-LISTA USKLAĐENOSTI SA PART M

AIRCRAFT MAINTENANCE PROGRAMME (AMP)-PART M COMPLIANCE LIST

Ispunjena lista mora se priložiti uz zahtjev kod prvog odobrenja/novog izdanja POZ-a.

This list must be completed and enclosed to application for first approval/new edition of AMP.

Note: For the purpose of this Appendix, references to CAMO should be understood as references to CAMO or CAO and references to Part145 organisations should be understood as references to Subpart F or Part-CAO organisations.

Program održavanja/Maintenance programme	Ref. u POZ-u/AMP reference
Naslovna stranica Cover page	
Sadržaj Content	
Lista važećih stranica List of effective pages	
Lista revizija Log of revision	
Lista distribucije Distribution list	
Opis revizije (u Programu se također trebaju nalaziti opisi svih prethodnih revizija) Revision notice	
Vrsta operacija zrakoplova (npr. privatna, komercijalni zračni prijevoz, itd.) Aircraft type of operations (eg. private, commercial air transport, etc.)	
Ako je primjenjivo na zrakoplov, program održavanja sadrži taskove inspekcije za FDR/CVR u skladu sa Uredbom (EU) br. 965/2012 i u skladu sa pripadajućim AMC/GM (npr. AMC1 CAT.GEN.MPA.195(b) itd). Aircraft maintenance programme (AMP) contains FDR/CVR inspections task(s), in accordance with Regulation (EU) No 965/2012 and related AMC/GM, if applicable (eg. AMC1 CAT.GEN.MPA.195(b) etc).	

Appendix I to AMC M.A.302 and AMC M.B.301 (b) Content of the maintenance programme		AMP reference
1	General requirements	
1.1	The maintenance programme should contain the following basic information.	
1.1.1	The type/model and registration number of the aircraft, engines and, where applicable, auxiliary power units and propellers.	
1.1.2	The name and address of the owner, operator or CAMO managing the aircraft airworthiness.	
1.1.3	The reference, the date of issue and issue number of the approved maintenance programme.	
1.1.4	A statement signed by the owner, operator or CAMO managing the aircraft airworthiness to the effect that the specified aircraft will be maintained to the programme and that the programme will be reviewed and updated as required.	
1.1.5	Contents/list of effective pages and their revision status of the document.	
1.1.6	Check periods, which reflect the anticipated utilisation of the aircraft. Such utilisation should be stated and include a tolerance of not more than 25%. Where utilisation cannot be anticipated, calendar time limits should also be included.	
1.1.7	Procedures for the escalation of established check periods, where applicable and acceptable to the competent authority of registry.	
1.1.8	Provision to record the date and reference of approved amendments incorporated in the	

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	maintenance programme.	
1.1.9	Details of pre-flight maintenance tasks that are accomplished by maintenance staff.	
1.1.10	The tasks and the periods (intervals/frequencies) at which each part of the aircraft, engines, APU's, propellers, components, accessories, equipment, instruments, electrical and radio apparatus, together with the associated systems and installations should be inspected. This should include the type and degree of inspection required.	
1.1.11	The periods at which components should be checked, cleaned, lubricated, replenished, adjusted and tested.	
1.1.12	If applicable details of ageing aircraft system requirements together with any specified sampling programmes.	
1.1.13	If applicable details of specific structural maintenance programmes where issued by the type certificate holder including but not limited to:	
a.	Maintenance of structural Integrity by damage Tolerance and Supplemental Structural Inspection Programmes (SSID).	
b.	Structural maintenance programmes resulting from the SB review performed by the TC holder	
C.	Corrosion prevention and control.	
d.	Repair Assessment.	
e.	Widespread Fatigue Damage	
1.1.14.	If applicable, details of Critical Design Configuration Control Limitations together with appropriate procedures.	
1.1.15	If applicable a statement of the limit of validity in terms of total flight cycles/calendar date/flight hours for the structural programme in 1.1.13.	
1.1.16	The periods at which overhauls and/or replacements by new or overhauled components should be made.	
1.1.17	A cross-reference to other documents approved by the Agency which contain the details of maintenance tasks related to mandatory life limitations, Certification Maintenance Requirements (CMR's) and ADs. Note: To prevent inadvertent variations to such tasks or intervals these items should not be included in the main portion of the maintenance programme document, or any planning control system, without specific identification of their mandatory status.	
1.1.18	Details of, or cross-reference to, any required reliability programme or statistical methods of continuous Surveillance.	
1.1.19	A statement that practices and procedures to satisfy the programme should be to the standards specified in the TC holder's Maintenance Instructions. In the case of approved practices and procedures that differ, the statement should refer to them.	
1.1.20	Each maintenance task quoted should be defined in a definition section of the programme.	
2	Programme basis	
2.1	An owner or a CAMO aircraft maintenance programme should normally be based upon the MRB report, where applicable, and the TC holder's maintenance planning document or Chapter 5 of the maintenance manual, (i.e. the manufacturer's recommended maintenance programme). The structure and format of these maintenance recommendations may be re-written by the owner or the CAMO to better suit the operation and control of the particular maintenance programme.	
2.2	For a newly type-certificated aircraft where no previously approved maintenance programme exists, it will be necessary for the owner or the CAMO to comprehensively appraise the manufacturer's recommendations (and the MRB report where applicable), together with other airworthiness information, in order to produce a realistic programme for approval.	
2.3	For existing aircraft types it is permissible for the owner or CAMO to make comparisons with maintenance programmes previously approved. It should not be assumed that a programme approved for one owner or the CAMO would automatically be approved for another.	
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	Evaluation should be made of the aircraft/fleet utilisation, landing rate, equipment fit and, in particular, the experience of the owner or the CAMO when assessing an existing programme. Where the competent authority is not satisfied that the proposed maintenance programme can be used as is, the competent authority should request appropriate changes such as additional	
	maintenance tasks or de-escalation of check frequencies as necessary.	
2.4	Critical Design Configuration Control Limitations (CDCCL) If CDCCL have been identified for the aircraft type by the TC/STC holder, maintenance instructions should be developed. CDCCL's are characterised by features in an aircraft installation or component that should be retained during modification, change, repair, or scheduled maintenance for the operational life of the aircraft or applicable component or part.	
3	Amendments	
	Amendments (revisions) to the approved maintenance programme should be made by the owner or the CAMO, to reflect changes in the TC holder's recommendations, modifications, service experience, or as required by the competent authority.	
4	Permitted variations to maintenance periods	
	The owner or the CAMO may only vary the periods prescribed by the programme with the approval of the competent authority or through a procedure developed in the maintenance programme and approved by the competent authority.	
5	Periodic review of maintenance programme contents	
5.1	The owner or the CAMO approved maintenance programmes should be subject to periodic review to ensure that they reflect current TC holder's recommendations, revisions to the MRB report if applicable, mandatory requirements and the maintenance needs of the aircraft.	
5.2	The owner or the CAMO should review the detailed requirements at least annually for continued validity in the light of operating experience.	
6.	Reliability Programmes	
6.1	Applicability	
6.1.1	A reliability programme should be developed in the following cases:	
(a)	the aircraft maintenance programme is based upon MSG-3 logic	
(b)	the aircraft maintenance programme includes condition monitored components	
(C)	the aircraft maintenance programme does not contain overhaul time periods for all significant system components	
(d)	when specified by the Manufacturer's maintenance planning document or MRB.	
6.1.2	A reliability Programme need not be developed in the following cases:	
(a)	the maintenance programme is based upon the MSG-1 or 2 logic but only contains hard time or on condition items	
(b)	the aircraft is not a complex motor-powered aircraft according to Part-M;	
(C)	the aircraft maintenance programme provides overhaul time periods for all significant system components. Note: for the purpose of this paragraph, a significant system is a system the failure of which could hazard the aircraft safety.	
6.1.3	Notwithstanding paragraphs 6.1.1 and 6.1.2 above, a CAMO may however, develop its own reliability monitoring programme when it may be deemed beneficial from a maintenance planning point of view.	
6.2	Applicability for CAMO/operator of small fleets of aircraft.	
6.2.1	For the purpose of this paragraph, a small fleet of aircraft is a fleet of less than 6 aircraft of the same type.	
6.2.2	The requirement for a reliability programme is irrespective of the CAMO fleet size.	
6.2.3	Complex reliability programmes could be inappropriate for a small fleet. It is recommended that	

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	such CAMOs tailor their reliability programmes to suit the size and complexity of operation.	
6.2.4	One difficulty with a small fleet of aircraft consists in the amount of available data which can be processed: when this amount is too low, the calculation of alert level is very coarse. Therefore "alert levels" should be used carefully.	
6.2.5	A CAMO of a small fleet of aircraft, when establishing a reliability programme, should consider the following:	
(a)	The programme should focus on areas where a sufficient amount of data is likely to be processed.	
(b)	When the amount of available data is very limited, the CAMO engineering judgement is then a vital element. In the following examples, careful engineering analysis should be exercised before taking decisions:	
	A "0" rate in the statistical calculation may possibly simply reveal that enough statistical data is missing, rather that there is no potential problem.	
	When alert levels are used, a single event may have the figures reach the alert level. Engineering judgement is necessary so as to discriminate an artefact from an actual need for a corrective action.	
	In making his engineering judgement, a CAMO is encouraged to establish contact and make comparisons with other CAMOs of the same aircraft, where possible and relevant. Making comparison with data provided by the manufacturer may also be possible.	
6.2.6	In order to obtain accurate reliability data, it should be recommended to pool data and analysis with one or more other CAMO(s). Paragraph 6.6 of this paragraph specifies under which conditions it is acceptable that CAMOs share reliability data.	
6.2.7	Notwithstanding the above there are cases where the CAMO will be unable to pool data with other CAMO, e.g. at the introduction to service of a new type. In that case the competent authority should impose additional restrictions on the MRB/MPD tasks intervals (e.g. no variations or only minor evolution are possible, and with the competent authority approval).	
6.3	Engineering judgement	
6.3.1	Engineering judgement is itself inherent to reliability programmes as no interpretation of data is possible without judgement. In approving the CAMO maintenance and reliability programmes, the competent authority is expected to ensure that the organisation which runs the programme (it may be CAMO, or an Part-145 organisation under contract) hires sufficiently qualified personnel with appropriate engineering experience and understanding of reliability concept (see AMC M.A.706).	
6.3.2	It follows that failure to provide appropriately qualified personnel for the reliability programme may lead the competent authority to reject the approval of the reliability programme and therefore the aircraft maintenance programme.	
6.4	Contracted maintenance	
6.4.1	Whereas M.A.302 specifies that, the aircraft maintenance programme -which includes the associated reliability programme-, should be managed and presented by the CAMO to the competent authority, the CAMO may subcontract certain functions to the maintenance organisation under contract, provided this organisation proves to have the appropriate expertise.	
6.4.2	These functions are:	
(a)	Developing the aircraft maintenance and reliability programmes,	
(b)	Performing the collection and analysis of the reliability data,	
(c)	Providing reliability reports, and	
(d)	Proposing corrective actions to the CAMO.	
6.4.3	Notwithstanding the above decision to implement a corrective action (or the decision to request from the competent authority the approval to implement a corrective action) remains the CAMO prerogative and responsibility. In relation to paragraph 6.4.2(d) above, a decision not to implement a corrective action should be justified and documented.	

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6.4.4	The arrangement between the CAMO and the maintenance organisation should be specified in the maintenance contract (see Appendix XI to AMC M.A.708(c)) and the relevant CAME, and maintenance organisation procedures.	
6.5	Reliability programme	
	In preparing the programme details, account should be taken of this paragraph. All associated procedures should be clearly defined	
6.5.1	Objectives	
6.5.1.1	A statement should be included summarising as precisely as possible the prime objectives of the programme. To the minimum it should include the following:	
(a)	to recognise the need for corrective action,	
(b)	to establish what corrective action is needed and,	
(c)	to determine the effectiveness of that action	
6.5.1.2	The extent of the objectives should be directly related to the scope of the programme. Its scope could vary from a component defect monitoring system for a small CAMO, to an integrated maintenance management programme for a big CAMO. The manufacturer's maintenance planning documents may give guidance on the objectives and should be consulted in every case.	
6.5.1.3	In case of a MSG-3 based maintenance programme, the reliability programme should provide a monitor that all MSG-3 related tasks from the maintenance programme are effective and their periodicity is adequate.	
6.5.2	Identification of items.	
	The items controlled by the programme should be stated, e.g. by ATA Chapters.	
	Where some items (e.g. aircraft structure, engines, APU) are controlled by separate programmes, the associated procedures (e.g. individual sampling or life development programmes, constructor's structure sampling programmes) should be cross referenced in the programme.	
6.5.3	Terms and definitions.	
	The significant terms and definitions applicable to the Programme should be clearly identified. Terms are already defined in MSG-3, Part-145 and Part-M.	
6.5.4	Information sources and collection.	
6.5.4.1	Sources of information should be listed and procedures for the transmission of information from the sources, together with the procedure for collecting and receiving it, should be set out in detail in the CAME or MOE as appropriate.	
6.5.4.2	The type of information to be collected should be related to the objectives of the Programme and should be such that it enables both an overall broad based assessment of the information to be made and also allow for assessments to be made as to whether any reaction, both to trends and to individual events, is necessary. The following are examples of the normal prime sources:	
(a)	Pilots Reports.	
(b)	Technical Logs.	
(C)	Aircraft Maintenance Access Terminal / On-board Maintenance System readouts.	
(d)	Maintenance Worksheets.	
(e)	Workshop Reports.	
(f)	Reports on Functional Checks.	
(h)	Reports on Special Inspections	
(g)	Stores Issues/Reports.	
(i)	Air Safety Reports.	
(j)	Reports on Technical Delays and Incidents.	
(k)	Other sources: ETOPS, RVSM, CAT II/III.	

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6.5.4.3	In addition to the normal prime sources of information, due account should be taken of continuing airworthiness and safety information promulgated under Part-21	
6.5.5	Display of information. Collected information may be displayed graphically or in a tabular format or a combination of both. The rules governing any separation or discarding of information prior to incorporation into these formats should be stated. The format should be such that the identification of trends, specific highlights and related events would be readily apparent.	
6.5.5.1	The above display of information should include provisions for "nil returns" to aid the examination of the total information.	
6.5.5.2	Where "standards" or "alert levels" are included in the programme, the display of information should be oriented accordingly.	
6.5.6	Examination, analysis and interpretation of the information. The method employed for examining, analysing and interpreting the programme information should be explained.	
6.5.6.1	Examination. Methods of examination of information may be varied according to the content and quantity of information of individual programmes. These can range from examination of the initial indication of performance variations to formalised detailed procedures at specific periods, and the methods should be fully described in the programme documentation.	
6.5.6.2	Analysis and Interpretation. The procedures for analysis and interpretation of information should be such as to enable the performance of the items controlled by the programme to be measured; they should also facilitate recognition, diagnosis and recording of significant problems. The whole process should be such as to enable a critical assessment to be made of the effectiveness of the programme as a total activity. Such a process may involve:	
(a)	Comparisons of operational reliability with established or allocated standards (in the initial period these could be obtained from in-service experience of similar equipment of aircraft types).	
(b)	Analysis and interpretation of trends.	
(c)	The evaluation of repetitive defects.	
(d)	Confidence testing of expected and achieved results.	
(e)	Studies of life-bands and survival characteristics.	
(f)	Reliability predictions.	
(g)	Other methods of assessment.	
6.5.6.3	The range and depth of engineering analysis and interpretation should be related to the particular programme and to the facilities available. The following, at least, should be taken into account:	
(a)	Flight defects and reductions in operational reliability.	
(b)	Defects occurring on-line and at main base.	
(c)	Deterioration observed during routine maintenance.	
(d)	Workshop and overhaul facility findings.	
(e)	Modification evaluations.	
(f)	Sampling programmes.	
(g)	The adequacy of maintenance equipment and publications.	
(h)	The effectiveness of maintenance procedures.	
(i)	Staff training.	
(j)	Service bulletins, technical instructions, etc.	
6.5.6.4	Where the CAMO relies upon contracted maintenance and/or overhaul facilities as an information input to the programme, the arrangements for availability and continuity of such	

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	information should be established and details should be included.	
6.5.7	Corrective Actions.	
6.5.7.1	The procedures and time scales both for implementing corrective actions and for monitoring the effects of corrective actions should be fully described. Corrective actions shall correct any reduction in reliability revealed by the programme and could take the form of:	
(a)	Changes to maintenance, operational procedures or techniques.	
(b)	Maintenance changes involving inspection frequency and content, function checks, overhaul requirements and time limits, which will require amendment of the scheduled maintenance periods or tasks in the approved maintenance programme. This may include escalation or de-escalation of tasks, addition, modification or deletion of tasks.	
(c)	Amendments to approved manuals (e.g. maintenance manual, crew manual).	
(d)	Initiation of modifications.	
(e)	Special inspections of fleet campaigns.	
(f)	Spares provisioning.	
(g)	Staff training.	
(h)	Manpower and equipment planning.	
	Note: Some of the above corrective actions may need the competent authority's approval before implementation.	
6.5.7.2	The procedures for effecting changes to the maintenance programme should be described, and the associated documentation should include a planned completion date for each corrective action, where applicable.	
6.5.8	Organizational Responsibilities. The organisational structure and the department responsible for the administration of the programme should be stated. The chains of responsibility for individuals and departments (Engineering, Production, Quality, Operations etc.) in respect of the programme, together with the information and functions of any programme control committees (reliability group), should be defined. Participation of the competent authority should be stated. This information should be contained in the CAME as appropriate.	
6.5.9	Presentation of information to the competent authority. The following information should be submitted to the competent authority for approval as part of the reliability programme:	
(a)	The format and content of routine reports.	
(b)	The time scales for the production of reports together with their distribution.	
(c)	The format and content of reports supporting request for increases in periods between maintenance (escalation) and for amendments to the approved maintenance programme. These reports should contain sufficient detailed information to enable the competent authority to make its own evaluation where necessary.	
6.5.10	Evaluation and review.	
	Each programme should describe the procedures and individual responsibilities in respect of continuous monitoring of the effectiveness of the programme as a whole.	
	The time periods and the procedures for both routine and non-routine reviews of maintenance control should be detailed (progressive, monthly, quarterly, or annual reviews, procedures following reliability "standards" or "alert levels" being exceeded, etc.).	
6.5.10.1	Each Programme should contain procedures for monitoring and, as necessary, revising the reliability "standards" or "alert levels". The organisational responsibilities for monitoring and revising the "standards" should be specified together with associated time scales.	
6.5.10.2	Although not exclusive, the following list gives guidance on the criteria to be taken into account during the review.	

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(a)	Utilisation (high/low/seasonal).	
(b)	Fleet commonality.	
(C)	Alert Level adjustment criteria.	
(d)	Adequacy of data.	
(e)	Reliability procedure audit.	
(f)	Staff training.	
(g)	Operational and maintenance procedures.	
6.5.11	Approval of maintenance programme amendment	
	The competent authority may authorise the CAMO to implement in the maintenance programme changes arising from the reliability programme results prior to their formal approval by the authority when satisfied that;	
(a)	the Reliability Programme monitors the content of the Maintenance Programme in a comprehensive manner, and	
(b)	the procedures associated with the functioning of the 'Reliability Group' provide the assurance that appropriate control is exercised by the CAMO over the internal validation of such changes.	
6.6	Pooling Arrangements.	
6.6.1	In some cases, in order that sufficient data may be analysed it may be desirable to 'pool' data: i.e. collate data from a number of CAMOs of the same type of aircraft. For the analysis to be valid, the aircraft concerned, mode of operation, and maintenance procedures applied should be substantially the same: variations in utilisation between two CAMOs may, more than anything, fundamentally corrupt the analysis. Although not exhaustive, the following list gives guidance on the primary factors which need to be taken into account.	
(a)	Certification factors, such as: aircraft TCDS compliance (variant) / modification status, including SB compliance.	
(b)	Operational Factors, such as: operational environment / utilisation, e.g. low/high/seasonal etc / respective fleet size operating rules applicable (e.g. ETOPS/RVSM/All Weather etc.) / operating procedures / MEL and MEL utilisation	
(C)	Maintenance factors, such as: aircraft age maintenance procedures; maintenance standards applicable; lubrication procedures and programme; MPD revision or escalation applied or maintenance programme applicable.	
6.6.2	Although it may not be necessary for all of the foregoing to be completely common, it is necessary for a substantial amount of commonality to prevail. Decision should be taken by the competent authority on a case by case basis.	
6.6.3	In case of a short term lease agreement (less than 6 month) more flexibility against the para 6.6.1 criteria may be granted by the competent authority, so as to allow the owner/CAMO to operate the aircraft under the same programme during the lease agreement effectivity.	
6.6.4	Changes by any one of the CAMO to the above, requires assessment in order that the pooling benefits can be maintained. Where a CAMO wishes to pool data in this way, the approval of the competent authority should be sought prior to any formal agreement being signed between CAMOs.	
6.6.5	Whereas this paragraph 6.6 is intended to address the pooling of data directly between CAMOs, it is acceptable that the CAMO participates in a reliability programme managed by the aircraft manufacturer, when the competent authority is satisfied that the manufacturer manages a reliability programme which complies with the intent of this paragraph.	
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