

## **CIVIL AVIATION DIRECTIVE – 6801**

# CONTINUING AIRWORTHINESS OF AIRCRAFT CAAM PART M

CIVIL AVIATION AUTHORITY OF MALAYSIA



### Introduction

In exercise of the powers conferred by section 24O of the Civil Aviation Act 2019 [Act 3], the Chief Executive Officer makes this Civil Aviation Directive (CAD) 6801 – Continuing Airworthiness of Aircraft (CAAM Part M) pursuant to Regulation 26, 30A, 31, 32, 110, 189 and 193 of the Malaysian Civil Aviation Regulations (MCAR) 2016.

This CAD contains the standards and requirements pertaining to the continuing airworthiness of aircraft registered in Malaysia.

Civil Aviation Directive 6801 - Continuing Airworthiness of Aircraft (CAAM Part M) is published by the Chief Executive Officer under section 24O of the Civil Aviation Act 1969 [*Act 3*] and comes into operation on 1<sup>st</sup> May 2021.

#### Non-compliance with this CAD

Any person who contravenes any provision in this CAD commits an offence and shall on conviction be liable to the punishments under Section 24O of the Civil Aviation Act 1969 (Act 3) and/or under Malaysia Civil Aviation Regulation 2016.

(Captain Chester Voo Chee Soon) Chief Executive Officer Civil Aviation Authority of Malaysia



## **Civil Aviation Directive components and Editorial practices**

This Civil Aviation Directive is made up of the following components and are defined as follows:

**Standards:** Usually preceded by words such as *"shall"* or *"must"*, are any specification for physical characteristics, configuration, performance, personnel or procedure, where uniform application is necessary for the safety or regularity of air navigation and to which Operators must conform. In the event of impossibility of compliance, notification to the CAAM is compulsory.

**Recommended Practices:** Usually preceded by the words such as "*should*" or "*may*", are any specification for physical characteristics, configuration, performance, personnel or procedure, where the uniform application is desirable in the interest of safety, regularity or efficiency of air navigation, and to which Operators will endeavour to conform.

**Appendices:** Material grouped separately for convenience but forms part of the Standards and Recommended Practices stipulated by the CAAM.

**Definitions:** Terms used in the Standards and Recommended Practices which are not selfexplanatory in that they do not have accepted dictionary meanings. A definition does not have an independent status but is an essential part of each Standard and Recommended Practice in which the term is used, since a change in the meaning of the term would affect the specification.

**Tables and Figures:** These add to or illustrate a Standard or Recommended Practice and which are referred to therein, form part of the associated Standard or Recommended Practice and have the same status.

**Notes:** Included in the text, where appropriate, Notes give factual information or references bearing on the Standards or Recommended Practices in question but not constituting part of the Standards or Recommended Practices;

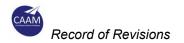
**Attachments:** Material supplementary to the Standards and Recommended Practices or included as a guide to their application.

It is to be noted that some Standards in this Civil Aviation Directive incorporates, by reference, other specifications having the status of Recommended Practices. In such cases, the text of the Recommended Practice becomes part of the Standard.

The units of measurement used in this document are in accordance with the International System of Units (SI) as specified in CAD 5. Where CAD 5 permits the use of non-SI alternative units, these are shown in parentheses following the basic units. Where two sets of units are quoted it must not be assumed that the pairs of values are equal and interchangeable. It may, however, be inferred that an equivalent level of safety is achieved when either set of units is used exclusively.

Any reference to a portion of this document, which is identified by a number and/or title, includes all subdivisions of that portion.

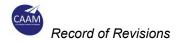
Throughout this Civil Aviation Directive, the use of the male gender should be understood to include male and female persons.



## **Record of Revisions**

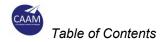
Revisions to this CAD shall be made by authorised personnel only. After inserting the revision, enter the required data in the revision sheet below. The *'Initials'* has to be signed off by the personnel responsible for the change.

Rev No.	Revision Date	Revision Details	Initials
	1		



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## 1 General

#### 1.1 Citation

- 1.1.1 This Civil Aviation Directive (CAD) are the Civil Aviation Directive 6801 Continuing Airworthiness of Aircraft (CAAM Part M), issue 01/Revision 00, and comes into operation on 1<sup>st</sup> May 2021.
- 1.1.2 This CAD 6801 Continuing Airworthiness of Aircraft (CAAM Part M), Issue 01/Revision 00 will remain current until withdrawn or superseded.

#### 1.2 Applicability

- 1.2.1 The following persons shall be subject to this CAD:
  - a) the registered owner of an aircraft;
  - b) the lessee of an aircraft; and
  - c) an organisation that is approved to manage continuing airworthiness.
- 1.2.2 This CAD establishes the measures to be taken to ensure that airworthiness is maintained, including maintenance. It also specifies the conditions to be met by the organisations involved in such continuing airworthiness management.

#### 1.3 Revocation

1.3.1 This CAD revokes Airworthiness Notice 6101 - Continuing Airworthiness of Aircraft (CAAM Part M), issue 2 dated 18<sup>th</sup> July 2019.

#### 1.4 Definitions

1.4.1 In this Directive, unless the context otherwise requires:-

ATO means an approved training organisation under regulation 64 of the MCAR;

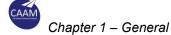
*Aircraft, Continuing airworthiness, Maintenance and Operator* has the same meaning assigned to it under the MCAR;

**AMO** means approved maintenance organisation which holds a valid certificate of approval granted under regulation 31(1)(b) or 32 of the MCAR;

AOC means a certificate issued under regulation 110 of the MCAR;

**CAMO** means an organisation that is approved to manage continuing airworthiness which holds a valid certificate of approval granted under regulation 31(1)(a) of the MCAR;

*Certificate of Airworthiness* means a certificate issued under regulation 26 of the MCAR;



*Certifying staff* means personnel of a maintenance organisation under regulation 31 or 32 of MCAR who is responsible for the release of an aircraft or a component after maintenance;

*Component* means any engine, propeller, part or appliance of the aircraft;

*Critical maintenance task* means a maintenance task that involves the assembly or any disturbance of a system or any part on an aircraft, engine or propeller that, if an error occurred during its performance, could directly endanger the flight safety;

#### Large aircraft means-

- a) an aeroplane with a maximum certificated take-off mass exceeding 5,700 kg;
- an aeroplane equipped with turbojet engine(s) or more than one turboprop engine;
- c) a rotorcraft with a maximum certificated take-off mass exceeding 3,175 kg; or
- d) a rotorcraft with more than one engine;

MCAR means Civil Aviation Regulations;

*Pre-flight inspection* means the inspection carried out before flight to ensure that the aircraft is fit for the intended flight; and

**TSO** means technical standard order which is a minimum performance standard for specified materials, parts, and appliances used on civil aircraft. When authorised to manufacture a material, part, or appliances to a TSO standard, this is referred to as TSO authorisation.

## 2 Accountability (Subpart B)

#### 2.1 Responsibilities

(M.201)

- 2.1.1 The owner of an aircraft shall be responsible for the continuing airworthiness of the aircraft and shall ensure that no flight takes place unless:
  - a) the aircraft is maintained in an airworthy condition by an approved maintenance organisation;
  - b) the operational and emergency equipment fitted is correctly installed and serviceable or clearly identified as unserviceable;
  - c) the Certificate of Airworthiness remains valid; and
  - d) the maintenance of the aircraft is performed in accordance with the approved maintenance programme.
- 2.1.2 In the case of lease, the responsibilities of the owner of an aircraft are transferred to the lessee if:
  - a) the lessee is stipulated on the registration document; or
  - b) detailed in the leasing contract.

For avoidance of doubt, henceforth, when reference is made in this CAD to the 'owner', the term 'owner' means the registered owner of the aircraft or the lessee, as applicable.

- 2.1.3 Any organisation performing maintenance shall be responsible for the tasks performed.
- 2.1.4 The owner shall be responsible for the satisfactory accomplishment of the preflight inspection. The pre-flight inspection shall be carried out by the pilot or another qualified person but need not be carried out by an approved maintenance organisation.

Note. – Maintenance include any one or combination of the following activities: overhaul, repair, inspection (except of pre-flight inspection), replacement, modification or defect rectification of an aircraft or component.

- 2.1.5 In the case of aircraft used by AOC holder, the owner shall be responsible for the continuing airworthiness of the aircraft and shall:
  - a) ensure that no flight takes place unless the conditions as specified in paragraph 2.1.1 of this CAD are met;
  - b) be approved to manage the continuing airworthiness of the aircraft; and
  - c) be an AMO approved in accordance with CAD 8601 or establish a written maintenance contract with such AMO.

- 2.1.6 In the case of:
  - a) an aircraft that is operated for the purposes of aerial work;
  - b) an aircraft that is operated by an ATO; or
  - c) a large aircraft that is operated by other than AOC holder,

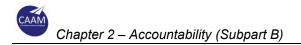
the owner shall be responsible for the continuing airworthiness of the aircraft and shall ensure that:

- no flight takes place unless the conditions defined in paragraph 2.1.1 of this CAD are met;
- the tasks associated with continuing airworthiness are performed by a CAMO. When the owner is not a CAMO itself then the owner shall establish a written contract in accordance with Appendix 1 of this CAD with such CAMO; and
- 3) the tasks associated with maintenance are performed by an AMO approved in accordance with CAD 8601. When the CAMO referred to in paragraph 2.1.6(c)(2) of this CAD is not an AMO approved in accordance with CAD 8601 then the CAMO shall establish a written maintenance contract with such AMO.
- 2.1.7 For any other aircraft not included in paragraph 2.1.5 or paragraph 2.1.6 of this CAD, the owner is responsible for the continuing airworthiness of the aircraft and shall ensure that
  - a) no flight takes place unless the conditions defined in paragraph 2.1.1 of this CAD are met;
  - b) the tasks associated with continuing airworthiness are performed by a CAMO.
    When the owner is not a CAMO itself then the owner shall establish a written contract in accordance with Appendix 1 of this CAD with such CAMO; and
  - c) the tasks associated with maintenance are performed by an AMO approved in accordance with CAD 8601 or CAD 8602. When the CAMO referred to in paragraph 2.1.7(b) of this CAD is not an AMO approved in accordance with CAD 8601 or CAD 8602 then the CAMO shall establish a written maintenance contract with such AMO.
- 2.1.8 The CAMO shall ensure at the maintenance facility during the inspection for any aspect of the maintenance arrangements of the contracted work to satisfy its responsibility for the airworthiness of the aircraft during the period of the contract.
- 2.1.9 When the owner of an aircraft contract, in accordance with Appendix 1 of this CAD, the tasks associated with continuing airworthiness to a CAMO, the CAMO assumes responsibility for the proper accomplishment of these tasks.

Chapter 2 – Accountability (Subpart B)

#### 2.2 Mandatory Occurrence Reporting – Airworthiness Aspect (M.202)

- 2.2.1 The persons and organisations as mentioned in Chapter 2 of this CAD, shall report to CAAM and the organisation responsible for the type design (or supplemental type design), of any identified condition of an aircraft or component that endangers flight safety.
- 2.2.2 Reports shall be made in accordance with CAD 1900 and contain all pertinent information about the conditions known to the person.
- 2.2.3 Where the organisation maintaining the aircraft is contracted by an owner to carry out maintenance, the organisation maintaining the aircraft shall also report to the owner and the CAMO any such condition affecting the owner's aircraft or component.
- 2.2.4 Reports shall be made as soon as practicable, and within 48 hours of the person identifying the condition to which the report relates.



## **3** Continuing Airworthiness (Subpart C)

#### 3.1 Continuing airworthiness tasks

(M.301)

- 3.1.1 The aircraft continuing airworthiness and the serviceability (serviceable status) of both operational and emergency equipment shall be ensured by:
  - a) the accomplishment of pre-flight inspections;
  - b) the rectification in accordance with data specified in paragraph 3.4 and paragraph 4.1 of this CAD, as applicable, of any defect and damage affecting safe operation taking into account, the minimum equipment list (MEL) and configuration deviation list, when applicable;
  - c) the accomplishment of all maintenance, in accordance with approved aircraft maintenance programme;
  - d) the analysis of the effectiveness of the approved maintenance programme;
  - e) the accomplishment of any applicable:
    - 1) airworthiness directive;
    - 2) any other safety directive with a continuing airworthiness impact;
    - 3) continued airworthiness requirement established by CAAM; and
    - 4) measures mandated by CAAM in immediate reaction to a safety problem.
    - 5) the accomplishment of modifications and repairs in accordance with paragraph 3.4 of this CAD;
  - f) maintenance check flights when necessary; and
  - g) the establishment of an embodiment policy for non-mandatory modifications and/or inspections.

#### 3.2 Aircraft maintenance programme

- 3.2.1 Maintenance of each aircraft shall be organised in accordance with an approved aircraft maintenance programme.
- 3.2.2 The aircraft maintenance programme and any subsequent amendments shall be approved by CAAM.
- 3.2.3 The aircraft maintenance programme shall be established in compliance with:
  - a) the requirements issued by CAAM;
  - b) the requirements for continuing airworthiness:
    - issued by the holders of the type-certificate, restricted type-certificate, supplemental type-certificate, major repair design approval, TSO authorisation or any other relevant approval; and

(M.302)

- included in the document containing design data with acceptable methods, techniques and practices for carrying out and identifying standard changes or standard repairs, if applicable; and
- c) the requirements for non-safety related tasks as follows:
  - 1) additional or alternative instructions, proposed by the CAMO, approved in accordance with paragraph 3.2 of this CAD; and
  - 2) escalation of tasks interval shall be subject to sufficient reviews being carried out in accordance with paragraph 3.2.6 of this CAD.
- 3.2.4 The aircraft maintenance programme shall contain details, including frequency of all maintenance to be carried out, including any specific tasks linked the type and the specific operations. When applicable, the aircraft maintenance programme shall include the certification maintenance requirements item.
- 3.2.5 When the maintenance programme is based on maintenance steering group logic or on condition monitoring, the aircraft maintenance programme shall include a reliability programme.
- 3.2.6 The aircraft maintenance programme shall be subject to periodic reviews and amended accordingly. These reviews shall ensure that the programme continues to be valid in light of the operating experience and instructions from CAAM whilst taking into account new maintenance instructions and modified maintenance instructions, promulgated by the type certificate and supplementary type certificate holders, TSO authorisation holders and any other organisation that publishes such data.

#### 3.3 Airworthiness directives

- 3.3.1 Any applicable airworthiness directive issued by CAAM or by the State of Design shall be carried out within the requirements of that airworthiness directive, unless otherwise agreed by CAAM.
- 3.3.2 The CAMO shall update CAAM for the compliance of any AD issued by CAAM or by the State of Design by using appropriate means and at period acceptable to the CAAM.

#### 3.4 Data for modifications and repairs

- 3.4.1 Modifications and repairs shall be carried out using
  - a) data as approved by CAAM;
  - b) data as approved by holder of a Design Organisation Approval; or
  - c) any other data as specified by CAAM.

(M.304)

(M.303)

#### 3.5 Aircraft continuing airworthiness record system (M.305)

- 3.5.1 The aircraft continuing airworthiness records shall consist of, as appropriate, an aircraft logbook, engine logbook(s) or engine module log cards, propeller logbook(s), log cards for any service life limited component and an aircraft journey logbook (also known as aircraft technical log).
- 3.5.2 At the completion of any maintenance, the associated maintenance release shall be entered in the appropriate logbook in the aircraft continuing airworthiness records. Each entry shall be made as soon as practicable and within 30 days after the day of the maintenance action.
- 3.5.3 The aircraft logbook shall be identified with the aircraft type and registration mark. The date together with the following information, as appropriate, shall be entered in the appropriate logbooks:
  - a) total flight time;
  - b) total flight cycles; and
  - c) total landings.
- 3.5.4 The aircraft continuing airworthiness records shall contain the current:
  - a) status of airworthiness directives and measures mandated by CAAM in immediate reaction to a safety problem;
  - b) status of modifications and repairs;
  - c) status of compliance with maintenance programme;
  - d) status of service life limited components;
  - e) mass and balance report; and
  - f) list of deferred maintenance.
- 3.5.5 In addition to the authorised release document CAAM Form 1 or equivalent document acceptable to CAAM, the following information relevant to any component installed shall be entered in the appropriate engine logbook, propeller logbook, engine module log card or service life limited component log card
  - a) identification of the component;
  - b) the type, serial number and registration of the aircraft to which the particular component has been fitted, along with the reference to the installation and removal of the component;
  - c) the date together with the component's accumulated total flight time, flight cycles, landings and calendar time, as appropriate; and
  - d) the current continuing airworthiness records as specified in paragraph 3.5.4 of this CAD applicable to the component.

#### Chapter 3 – Continuing Airworthiness (Subpart C)

- 3.5.6 The person responsible for the management of continuing airworthiness tasks pursuant to Chapter 2 of this CAD shall control the records as detailed in paragraph 3.5 of this CAD and present the records to CAAM upon request.
- 3.5.7 All entries made in the aircraft continuing airworthiness records shall be clear and accurate. When it is necessary to correct an entry, the correction shall be made with a single line strikethrough that clearly shows the original entry.
- 3.5.8 An owner of an aircraft shall ensure that a system has been established to keep the following records for the periods specified—
  - all detailed maintenance records in respect of the aircraft and any life-limited component fitted thereto, shall be kept at least 12 months after the aircraft or component has been permanently withdrawn from service;
  - b) all detailed maintenance records in respect of the aircraft and any life-limited component fitted thereto, shall be kept until such time as the information contained therein is superseded by new information equivalent in scope and detail but not less than 36 months after the aircraft or component has been released to service or at least 12 months after the aircraft or component has been permanently withdrawn from service;
  - c) the total time in service (hours, calendar time, cycles and landings) of the aircraft and all service life-limited components, shall be kept at least 12 months after the aircraft or component has been permanently withdrawn from service;
  - d) the time in service (hours, calendar time, cycles and landings) as appropriate, since last scheduled maintenance of the component subjected to a service life limit, shall be kept at least until the component scheduled maintenance has been superseded by another scheduled maintenance of equivalent work scope and detail;
  - e) the current status of compliance with maintenance programme such that compliance with the approved aircraft maintenance programme can be established, shall be kept at least until the aircraft or component scheduled maintenance has been superseded by other scheduled maintenance of equivalent work scope and detail;
  - f) the current status of compliance with airworthiness directives applicable to the aircraft and components, shall be kept at least 12 months after the aircraft or component has been permanently withdrawn from service; and
  - g) details of current modifications and repairs to the aircraft, engine(s), propeller(s) and any other component vital to flight safety, shall be kept at least 12 months after they have been permanently withdrawn from service.

#### 3.6 Aircraft journey log system

(M.306)

- 3.6.1 In addition to the requirements of paragraph 3.5 of this CAD, the owner shall use an aircraft journey log system containing the following information for each aircraft
  - a) information about each flight, necessary to ensure continued flight safety;
  - b) the current aircraft maintenance release;
  - c) the current maintenance statement giving the aircraft maintenance status of what scheduled and out of phase maintenance is next due except that CAAM should agree to the maintenance statement being kept elsewhere;
  - d) all outstanding deferred defects rectifications that affect the operation of the aircraft; and
  - e) any necessary guidance instructions on maintenance support arrangements.
- 3.6.2 The aircraft journey log system and any subsequent amendment shall be incorporated in the continuing airworthiness management exposition (CAME) and approved by CAAM.
- 3.6.3 An owner shall ensure that the aircraft journey log is retained for at least 36 months after the date of the last entry.

#### 3.7 Transfer of aircraft continuing airworthiness records (M.307)

- 3.7.1 The owner shall ensure, when an aircraft is permanently transferred from one owner to another, that the continuing airworthiness records as specified in paragraph 3.5 of this CAD and, if applicable, aircraft journey log as specified in paragraph 3.6 of this CAD, are also transferred.
- 3.7.2 The owner of an aircraft shall ensure, when he contracts the continuing airworthiness management tasks to a CAMO, that the continuing airworthiness records as specified in paragraph 3.5 of this CAD are transferred to the contracted CAMO.
- 3.7.3 The time periods prescribed for the retention of records shall continue to apply to the new owner of the aircraft or CAMO.

## 4 Maintenance standards (Subpart D)

#### 4.1 Maintenance data

(M.401)

- 4.1.1 The organisation maintaining an aircraft shall have access to and use only applicable current maintenance data in the performance of maintenance including modifications and repairs.
- 4.1.2 For the purposes of this CAD, applicable maintenance data are
  - a) any applicable requirement, procedure, standard or information issued by the authority responsible for the oversight of the aircraft or component;
  - b) any applicable airworthiness directive issued by the authority responsible for the oversight of the aircraft or component;
  - any applicable instructions for continuing airworthiness, issued by the holders of the type certificate, restricted type certificate, supplemental type certificate, TSO authorisation, major modification approval, major repair design approval or any other relevant approval deemed to have been issued by CAAM; and
  - d) any applicable maintenance instructions issued by maintenance organisation. The organisation should only modify maintenance instructions in accordance with a procedure specified in the maintenance organisation's exposition. With respect to those changes, the organisation shall demonstrate that they result in equivalent or improved maintenance standards and shall inform the typecertificate holder of such changes. Maintenance instructions for the purposes of this paragraph mean instructions on how to carry out the particular maintenance task; they exclude the engineering design of repairs and modifications.
- 4.1.3 The organisation maintaining an aircraft shall ensure that all applicable maintenance data is current and readily available for use when required. The organisation shall establish a work card or worksheet system to be used and shall either transcribe accurately the maintenance data onto such work cards or worksheets or make precise reference to the particular maintenance task or tasks contained in such maintenance data.

#### 4.2 Performance of maintenance

#### (M.402)

- 4.2.1 Any organisation performing maintenance shall:
  - a) be qualified for the tasks performed, as required by this CAD;
  - b) ensure that the area in which maintenance is carried out is well organised and clean in respect of dirt and contamination;
  - c) use the methods, techniques, standards and instructions specified in the maintenance data as referred in paragraph 4.1 of this CAD;

- d) use the tools, equipment and material specified in the maintenance data as referred in paragraph 4.1 of this CAD. If necessary, tools and equipment shall be controlled and calibrated to an officially recognised standard;
- e) ensure that maintenance is performed within any environmental limitations specified in the maintenance data as referred in paragraph 4.1 of this CAD;
- f) ensure that proper facilities are used in case of inclement weather or lengthy maintenance;
- g) ensure that the risk of multiple errors during maintenance and the risk of errors being repeated in identical maintenance tasks are minimised;
- h) ensure that an error capturing method is implemented after the performance of any critical maintenance task; and
- i) carry out a general verification after completion of maintenance to ensure the aircraft or component is clear of all tools, equipment and any extraneous parts or material, and that all access panels removed have been refitted.

#### 4.3 Aircraft defects

#### (M.403)

- 4.3.1 Any aircraft defect not within any limits specified in the maintenance data or MEL that hazards seriously the flight safety shall be rectified before further flight.
- 4.3.2 Only the authorised certifying staff of an approved maintenance organisation shall decide using maintenance data as specified in paragraph 4.1 of this CAD, whether an aircraft defect hazards seriously the flight safety and therefore decide when and which rectification action shall be taken before further flight and which defect rectification can be deferred. However, this does not apply when the MEL is used by the pilot or by the authorised certifying staff.
- 4.3.3 Any aircraft defect within any limits specified in the maintenance data or MEL that would not hazard seriously the flight safety shall be rectified as soon as practicable.
- 4.3.4 Any defect not rectified before flight shall be recorded in the aircraft continuing airworthiness record system.
- 4.3.5 The MEL shall be developed on a basis of Master Minimum Equipment List (MMEL).

## 5 Components (Subpart E)

#### 5.1 Installation

(M.501)

- 5.1.1 Component shall not be fitted, unless otherwise specified, if it:
  - a) is not in a satisfactory condition;
  - b) has not been appropriately released from maintenance using an authorised release document CAAM Form 1 or equivalent; and
  - c) is not marked in accordance with requirements specified by CAAM.
- 5.1.2 Prior to installation of a component on an aircraft the AMO shall ensure that the particular component is eligible to be fitted when different modification or airworthiness directive configurations should be applicable.
- 5.1.3 Standard parts shall only be fitted to an aircraft or a component when the maintenance data specifies the particular standard part. Standard parts shall only be fitted when accompanied by evidence of conformity traceable to the applicable standard.
- 5.1.4 Material being either raw material or consumable material shall only be used on an aircraft or a component when the aircraft or component manufacturer states so in relevant maintenance data. Such material shall only be used when the material meets the required specification and has appropriate traceability. All material shall be accompanied by documentation clearly relating to the particular material and containing a conformity to specification statement plus both the manufacturing and supplier source.

#### 5.2 Component maintenance

#### (M.502)

- 5.2.1 The maintenance of components shall be performed by maintenance organisations approved in accordance with CAD 8601 or CAD 8602, with a 'C' rating.
- 5.2.2 By derogation from paragraph 5.2.1 of this CAD, maintenance of a component in accordance with aircraft maintenance data or, if agreed by CAAM, in accordance with component maintenance data, should be performed by a maintenance organisation approved in accordance with CAD 8601 or CAD 8602, with 'A' rating, whilst such components are fitted to the aircraft.
- 5.2.3 Nevertheless, such organisation should temporarily remove this component for maintenance in order to improve access to the component, except when such removal generates the need for additional maintenance not eligible for the provisions of this paragraph. Component maintenance performed in accordance with this paragraph is not eligible for the issuance of an authorised release document CAAM Form 1 and shall be subject to the aircraft release requirements in accordance with CAD 8601 or 8602, as applicable.

#### Chapter 5 – Components (Subpart E)

- 5.2.4 By derogation from paragraph 5.2.1 of this CAD, maintenance of an engine (or Auxiliary Power Unit (APU)) component in accordance with engine (or APU) maintenance data or, if agreed by CAAM, in accordance with component maintenance data, should be performed by a maintenance organisation approved in accordance with CAD 8601 or CAD 8602, with 'B' rating, whilst such components are fitted to the engine (or APU).
- 5.2.5 Nevertheless, such organisation should temporarily remove this component for maintenance in order to improve access to the component, except when such removal generates the need for additional maintenance not eligible for the provisions of this paragraph.

#### 5.3 Service life limited components

- 5.3.1 Installed service life limited components shall not exceed the approved service life limit as specified in the approved maintenance programme and airworthiness directives, except as provided for in paragraph 5.4.3 of this CAD.
- 5.3.2 The approved service life is expressed in calendar time, flight hours, landings or cycles, as appropriate.
- 5.3.3 At the end of the approved service life, the component shall be removed from the aircraft for maintenance, or for disposal in the case of components with a certificated life limit.

#### 5.4 Control of unserviceable components

- 5.4.1 A component shall be considered unserviceable in any one of the following circumstances:
  - a) expiry of the service life limit as defined in the maintenance program;
  - b) non-compliance with the applicable airworthiness directives and other continued airworthiness requirement mandated by CAAM;
  - c) absence of the necessary information to determine the airworthiness status or eligibility for installation;
  - d) evidence of defects or malfunctions; or
  - e) involvement in an incident or accident likely to affect its serviceability.
- 5.4.2 Unserviceable components shall be identified and stored in a secure location under the control of an approved maintenance organisation until a decision is made on the future status of such component. Nevertheless, for unserviceable component removed from aircraft other than large aircraft, aircraft used by AOC holder, aircraft used by ATO or aircraft used for the purpose of aerial work, the organisation that declared the component unserviceable should transfer its custody, after identifying it as unserviceable, to the aircraft owner provided that

#### (M.504)

(M.503)

#### Chapter 5 – Components (Subpart E)

such transfer is reflected in the aircraft logbook, engine logbook or component logbook.

- 5.4.3 Components which have reached their certificated life limit or contain a nonrepairable defect shall be classified as unsalvageable and shall not be permitted to re-enter the component supply system, unless certificated life limits have been extended or a repair solution has been approved according to paragraph 3.4 of this CAD.
- 5.4.4 In the case of unsalvageable components specified in paragraph 5.4.3 of this CAD, any person or organisation accountable under this CAD shall
  - a) retain such component in the location specified in paragraph 5.4.2 of this CAD; or
  - b) arrange for the component to be mutilated in a manner that ensures that it is beyond economic salvage or repair before relinquishing responsibility for such component.
- 5.4.5 Notwithstanding paragraph 5.4.4 of this CAD, a person or organisation accountable under this CAD should transfer the responsibility for components classified as unsalvageable to an organisation for training or research without mutilation but shall be permanently marked "NOT FOR AIRCRAFT USE".



Chapter 6 – Maintenance Organisation (Subpart F)

## 6 Maintenance organisation (Subpart F)

Details on Maintenance Organisation (Subpart F) are contained in CAD 8602.

## 7 Continuing Airworthiness Management Organisation (Subpart G)

Details on Continuing Airworthiness Management Organisation (Subpart G) are contained in CAD 8602.

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Chapter 8 – Maintenance Release (Subpart H)

## 8 Maintenance Release (Subpart H)

Details on Maintenance Release (Subpart H) are contained in CAD 8602.

## 9 Airworthiness Review Report (Subpart I)

#### 9.1 Aircraft airworthiness review

#### (M.901)

- 9.1.1 To ensure the validity of the certificate of airworthiness, an airworthiness review of the aircraft and its continuing airworthiness records shall be carried out in accordance with Chapter 9 of CAD 6802.
- 9.1.2 An Airworthiness Review Report (ARR) shall be prepared in accordance with Chapter 9 of CAD 6802 on completion of a satisfactory aircraft airworthiness review. The airworthiness review should be performed up to a maximum of 90 days prior to expiry of the certificate of airworthiness.

## 10 Obligation of a CAMO under an AOC holder

#### 10.1 Obligation of a CAMO

10.1.1 CAAM shall require performance of proving/demonstration flight to ensure that all airworthiness requirements for AOC are met. The CAMO shall provide the necessary support to CAAM for the proving/demonstration flight(s).

## 11 Airworthiness Considerations

#### 11.1 Airworthiness considerations

- 11.1.1 For purposes of granting an approval, airworthiness consideration is required.
- 11.1.2 For purposes of 11.1.1 of this CAD, an applicant shall fulfil airworthiness requirements as follows:
  - a) submit related engineering report to CAAM;
  - b) ensure that the aircraft is equipped with required equipment;
  - c) establish maintenance programme which includes specific maintenance procedures in respect of continuing airworthiness;
  - d) ensure maintenance personnel is trained and qualified; and
  - e) comply with any other requirements as shall be determined by CAAM.
- 11.1.3 To determine compliance with airworthiness requirement under 11.1.2 CAAM shall require an applicant to conduct validation flight (if applicable).
- 11.1.4 For purposes of this paragraph, "approval" includes approval such as in relation to electronic flight bag, low visibility operations, performance-based navigation and performance-based communication and surveillance.

## 12 Appendices

#### 12.1 Appendix 1 - Continuing airworthiness management contract

- 12.1.1 Introduction
- 12.1.1.1 A copy of the continuing airworthiness management contract shall be submitted by the owner to CAAM once it has been signed by the owner and the CAMO.
- 12.1.1.2 The contract shall be developed taking into account the requirements of CAD 6801, CAD 6802, CAD 8601 and CAD 8602 and shall define the obligations of the signatories in relation to continuing airworthiness of the aircraft.
- 12.1.1.3 The contract shall amongst others, contain the following information
  - a) aircraft registration;
  - b) aircraft type;
  - c) aircraft serial number;
  - d) aircraft owner's name and company details including the address;
  - e) CAMO details including the address; and
  - f) type of operation.
- 12.1.2 The contract shall further include the following statement:

"The owner entrusts, to the CAMO, the management of the continuing airworthiness of the aircraft, the development of a maintenance programme that shall be approved by CAAM and the organisation of the maintenance of the aircraft according to the maintenance programme.

Both parties undertake to follow the respective obligations of this contract.

The owner declares, to the best of its belief that all the information given to the CAMO concerning the continuing airworthiness of the aircraft is accurate and will not be altered without prior approval of the CAMO.

In case of any non-conformity with this contract, by either party, this contract shall become null and void. In such a case, the owner shall hold full responsibility for every task linked to the continuing airworthiness of the aircraft and both parties shall undertake to inform CAAM within two full weeks from the date of the nonconformity with this contract by either party."

#### Chapter 12 – Appendices

12.1.3 The obligations of each party in the contract shall be as follows:

- 12.1.3.1 Obligations of the CAMO:
  - a) have the aircraft's type in the scope of its approval;
  - b) maintain the continuing airworthiness of the aircraft as listed below-
    - 1) develop a maintenance programme for the aircraft, including any reliability programme, if applicable;
    - 2) organise the approval of the aircraft's maintenance programme;
    - once the aircraft's maintenance programme has been approved, provide a copy of the aircraft's maintenance programme to the owner;
    - 4) organise a bridging inspection/check with reference to the aircraft's prior maintenance programme;
    - 5) organise for all maintenance to be carried out by an approved maintenance organisation;
    - 6) organise for all applicable airworthiness directives to be accomplished;
    - organise for all defects discovered during scheduled maintenance, airworthiness reviews or reported by the owner to be corrected by an approved maintenance organisation;
    - coordinate scheduled maintenance, accomplishment of airworthiness directives, replacement of life limited parts, and component inspection requirements;
    - 9) inform the owner each time the aircraft shall be brought to an approved maintenance organisation; and
    - 10) manage and archive all continuing airworthiness records.
  - c) organise the approval of any modification to the aircraft in accordance with requirements prescribed by CAAM before it is embodied;
  - d) organise the approval of any repair to the aircraft in accordance with requirements prescribed by CAAM before it is carried out;
  - e) inform CAAM whenever the aircraft is not presented to the approved maintenance organisation when the maintenance is due;
  - f) inform CAAM whenever the present contract has not been respected;
  - ensure that the airworthiness review of the aircraft is carried out when necessary and ensure that the airworthiness review report and its recommendation is sent to CAAM;
  - h) report to CAAM in accordance with paragraph 2.2 of CAD 6801; and
  - i) inform CAAM whenever the present contract is terminated by either party and return all continuing airworthiness records to the owner.

#### Chapter 12 – Appendices

#### 12.1.3.2 Obligations of the owner:

- a) have a general understanding of the approved maintenance programme;
- b) have a general understanding of CAD 6801, CAD 6802, CAD 8601 and CAD 8602;
- c) present the aircraft to the approved maintenance organisation at the due time designated by the CAMO;
- d) not modify the aircraft without first consulting the CAMO;
- e) inform the CAMO of all maintenance carried out without the knowledge and control of the CAMO;
- f) report to the CAMO through the aircraft journey log all defects found during operations;
- g) inform CAAM whenever the present contract is terminated by either party and ensure all continuing airworthiness records are returned by the CAMO;
- h) inform CAAM and the CAMO whenever the aircraft is sold;
- i) report to CAAM in accordance with paragraph 2.2 of CAD 6801; and
- j) inform the CAMO, on a regular basis, about the aircraft flying hours and any other utilisation data, as agreed with the CAMO.

