CAR PART V

CHAPTER 4

CAR M - CONTINUING AIRWORTHINESS REQUIREMENTS
FOREWORD

Objective and scope

1. This Regulation establishes common technical requirements and administrative procedures for ensuring the continuing airworthiness of aircraft, including any component for installation thereto, which are:
   a. registered in the United Arab Emirates Civil Aircraft Registry; or
   b. registered in a third country and used by a United Arab Emirates operator where the UAE GCAA has assumed responsibility for the oversight of the continued airworthiness management functions of such an aircraft.

2. Paragraph 1 shall not apply to aircraft the regulatory safety oversight of which has been transferred to a third country and which are not used by a UAE operator.

3. The provisions of this Regulation related to commercial air transport are applicable to licensed air carriers, air transport operators and commercial activities as defined by CAR-OPS 1.003 and CAR-OPS 3.003. The provisions of this regulation are also applicable to Private Operators certified under CAR-OPS 1 and CAR-OPS 3.

Definitions

Within the scope of this Regulation, the following definitions shall apply:

(a) “Regulation” means the rules published by the GCAA that an approved organisation must show compliance with to first be granted an approval and then to maintain it. Approved organisations must ensure that they regularly review all applicable published regulation(s) to ensure that they maintain compliance in the light of changes to the rules, or changes with to the practices within the organisation.

(b) “Acceptable Means Of Compliance” (AMC) means material that is published in support of the regulation and provides the GCAA’s approved method of complying with the published rules. Approved organisations should follow these methods to achieve compliance. Where AMC material is not published it has been determined that the regulation is clear enough as to not require the provision of additional information. It is possible for an organisation to agree a different method of compliance but such a difference must be formally notified and proposed to the GCAA for review. If an alternative AMC is accepted then this will be notified to the organization by letter and will, at some point in the future, be published in the regulations to allow all other approved organisations the opportunity to adopt the practice.

(c) “Guidance Material” means material which helps to illustrate the meaning of regulations or AMCs.

(d) "aircraft" means any machine that can derive support in the atmosphere from the reactions of the air other than reactions of the air against the earth's surface;

(e) "certifying staff" means personnel responsible for the release of an aircraft or a component after maintenance;

(f) "component" means any engine, propeller, part or appliance;
"continuing airworthiness" means all of the processes ensuring that, at any time in its operating life, the aircraft complies with the airworthiness requirements in force and is in a condition for safe operation;

(h) “the GCAA” means the United Arab Emirates General Civil Aviation Authority, also referred to as the Authority;

(i) “CAR” means UAE Civil Aviation Regulations;

(j) "large aircraft" means an aircraft, classified as an aeroplane with a maximum take-off mass of more than 5700 kg, or a multi-engine helicopter;

(k) “maintenance” means any one or combination of overhaul, repair, inspection, replacement, modification or defect rectification of an aircraft or component, with the exception of pre-flight inspection;

(l) “organisation” means a natural person, a legal person or part of a legal person. Such an organisation may be established at more than one location;

(m) “pre-flight inspection” means the inspection carried out before flight to ensure that the aircraft is fit for the intended flight;

(n) “Commercial Operations” - Unless otherwise specifically authorised by the GCAA, the following activities are categorised as commercial operations:

(1) Sightseeing flights (A to A or A to B within UAE airspace);
(2) Aerial work operations, including:

(i) Agricultural operations
(ii) External load operations
(iii) Aerial photography and survey
(iv) Aerial reconnaissance
(v) Aerial advertising
(vi) Air shows and aerial demonstrations
(vii) Carriage and dropping of parachutists (operator of aircraft)
(viii) Navigation aid calibration
(ix) Other activities as determined by the GCAA.

(o) “Commercial Air Transport” means an aircraft operation involving the transport of passengers, cargo or mail for remuneration or hire. The term encompasses Air Carriers and Air Transport Operators.

(p) “Air Carrier” is a commercial operator of an aeroplane engaged in the transportation of passengers, cargo and mail for remuneration or hire and offering services to the public in accordance with a published schedule.

(q) “Air Transport Operator” - An Air Transport Operator is a commercial operator of an aeroplane engaged in transportation of passengers, cargo and mail for remuneration or hire offering service to the public on demand and not to a published schedule;

(r) “Private Operator” – means a person, organisation or enterprise engaged in the carriage of persons or cargo not for hire or reward.

For the purpose of this chapter, the word “Subpart” means “Subchapter”.
Continuing airworthiness requirements

1. The continuing airworthiness of aircraft and components shall be ensured in accordance with the provisions of Chapter IV of CAR PART V (CAR M).

2. Organisations and personnel involved in the continuing airworthiness of aircraft and components, including maintenance, shall comply with the provisions of CAR M and where appropriate those specified in CAR 145 and CAR 66.

3. Reserved

4. Reserved

Maintenance organisation approvals

1. Organisations involved in the maintenance of large aircraft or of aircraft used for commercial air transport, and components intended for fitment thereto, shall be approved in accordance with the provisions of Chapter III of CAR PART V (CAR 145).

   (a) Maintenance approvals issued or recognised by the GCAA in accordance with CAR requirements and procedures and valid before the entry into force of this Regulation shall be deemed to have been issued in accordance with this Regulation.

2. Personnel qualified to carry out and/or control a continued airworthiness non-destructive test of aircraft structures and/or components, on the basis of any standard recognised by the GCAA prior to the entry into force of this Regulation as providing an equivalent level of qualification, may continue to carry out and/or control such tests.

3. Certificates of release to service and authorised release certificates issued before the date of entry into force of this Regulation by a maintenance organisation approved under the GCAA requirements shall be deemed equivalent to those required under CAR M.801 and CAR M.802, respectively.

Certifying staff

1. Certifying staff shall be qualified in accordance with the provisions of CAR 66 or the existing regulation as agreed by the GCAA until full implementation of CAR 66 provisions, except as provided for in CAR M.606(h), CAR M.607(b), CAR M.801(d), CAR M.803 and in CAR 145.30(j) and Appendix IV to CAR 145.

   For the purpose of this Chapter, licenses issued prior to CAR 66 entry into force shall be considered equivalent to CAR 66 licenses.

2. Reserved
Training organisation requirements

1. Organisations involved in the training of personnel referred to in CAR 66 shall be approved in accordance with CAR 147 and will be entitled to:
   
   (a) conduct recognised basic training courses; and/or  
   (b) conduct recognised type training courses; and  
   (c) conduct examinations; and  
   (d) issue training certificates.

2. Reserved

Entry into force

1. This revision of CAR M shall enter into force on the day following its publication on the official UAE GCAA website.

2. Certain provisions of this CAR PART V Chapter 4 (CAR M) have been amended. A transition period will be allowed for the following provision;

   CAR M.708(c), new requirement for Appendix II maintenance contracts to be “approved by the GCAA prior to entry into force”. Currently contract arrangements are only accepted by the GCAA. This requirement will come into force on 01 January 2015.

For all other changes a transition period is not considered to be necessary for implementation of the amendment.
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| Issue: Initial Revision:01 | Addition of a Guidance Material 702 and related appendix XIV to GM 702  
Removal of references to CAR PART V Chapter 2 concerning Certificate of Maintenance Review (M 710 and M 711), independent inspections (M 402) and validity of C of A (M 902)  
Correction of Typo errors | December 2013 |
| Issue: 02 Revision: 00 | Removal of references to balloons, ELA1 aircraft, Light Sport Aircraft, pilot owner maintenance, maintenance by independent certifying staff, complex maintenance tasks, and contracting CAW organisations by private operators, Appendix I to CAR M.  
Addition of requirement for Chief Executive to sign the Accountable Manager statement in both MOM and CAME if the AM is not the Chief Executive (taken from CAR 145.70).  
Addition of action to be taken if findings are not responded to within the agreed timescale to CAR M.619, M.716 and M.905. | October 2014 |
| Issue: 02 Revision: 00 | Addition of root cause analysis requirement, and amendment of Level 1 and Level 2 definitions in CAR M.619, M.716 and M.905.  
Addition of some changes to EASA Part M in EASA ED Decision 2012/004/R.  
Clarification of requirements for the maintenance of aircraft, complete engines, and engine modules to be carried out by a GCAA approved maintenance organisation. Further clarification that all other components can be carried out by an organisation approved to issue an AW Form 1 or equivalent document.  
Amendment of CAR M.708(c) to require maintenance contracts to be “approved” by the GCAA prior to them coming into force. Currently maintenance contract arrangements are only “accepted”.  
Clarification of qualification requirements for a type qualified person assisting an ARC signatory with the | October 2014 |
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For the purpose of this Chapter, the “Authority” shall be understood as the General Civil Aviation Authority of the United Arab Emirates whose authority shall cover:

1. Oversight of the continuing airworthiness of individual aircraft and the issue of airworthiness review certificates for aircraft registered in the State.

2. Oversight of maintenance organisations as specified in Section A, Subpart F of this Chapter (CAR M).

3. Oversight of continuing airworthiness management organisations as specified in Section A, Subpart G of this Chapter (CAR M).

4. Approval of maintenance programmes for aircraft registered in the State.
SECTION A - TECHNICAL REQUIREMENTS

SUBPART A - GENERAL

CAR M.101 Scope

This Section establishes the measures to be taken to ensure that airworthiness is maintained, including maintenance. It also specifies the conditions to be met by the persons or organisations involved in such continuing airworthiness management.

SUBPART B - ACCOUNTABILITY

CAR M.201 Responsibilities

(a) The owner is responsible for the continuing airworthiness of an aircraft and shall ensure that no flight takes place unless:

1. the aircraft is maintained in an airworthy condition, and;
2. any operational and emergency equipment fitted is correctly installed and serviceable or clearly identified as unserviceable, and;
3. the certificate of airworthiness remains valid, and;
4. the maintenance of the aircraft is performed in accordance with the approved maintenance programme as specified in CAR M.302.

(b) When the aircraft is leased, the responsibilities of the owner are transferred to the lessee if:

1. the lessee is stipulated on the registration document, or;
2. detailed in the leasing contract.

When reference is made in this Chapter to the ‘owner’, the term owner covers the owner or the lessee, as applicable.

(c) Any person or organisation performing maintenance shall be responsible for the tasks performed.

(d) The pilot-in-command or, in the case of commercial air transport, the operator shall be responsible for the satisfactory accomplishment of the pre-flight inspection. This inspection must be carried out by the pilot or another qualified person but need not be carried out by an approved maintenance organisation or by CAR 66 certifying staff.

(e) In order to satisfy the responsibilities of paragraph (a):

1. The owner of an aircraft not listed in paragraphs (f), (h) and (i) must contract the tasks associated with continuing airworthiness to a continuing airworthiness management
organisation approved in accordance with Section A, Subpart G of CAR M. In this case, the continuing airworthiness management organisation assumes responsibility for the proper accomplishment of these tasks.

2. Reserved

(f) In the case of large aircraft not listed in (h) below, in order to satisfy the responsibilities of paragraph (a) the owner of an aircraft shall ensure that the tasks associated with continuing airworthiness are performed by an approved continuing airworthiness management organisation, whether contracted or owned and managed. If a continuing airworthiness management organisation is contracted, a written contract shall be made in accordance with Appendix I. In this case, the continuing airworthiness management organisation assumes responsibility for the proper accomplishment of these tasks. The operator may assume this responsibility if approved pursuant to Section A Subpart G of this Chapter (CAR M) for the aircraft it operates.

(g) Maintenance of large aircraft, aircraft used for commercial air transport and components thereof shall be carried out by a CAR 145 approved maintenance organisation.

(h) In the case of commercial air transport the operator is responsible for the continuing airworthiness of the aircraft it operates and shall:

1. be approved, as part of the air operator certificate issued by the GCAA, pursuant to Section A Subpart G of this Chapter (CAR M) for the aircraft it operates, and
2. be approved in accordance with CAR 145 or contract such an organisation; and
3. ensure that paragraph (a) is satisfied.

(i) When an operator is engaged in commercial operations, other than commercial air transport, it shall:

1. be appropriately approved, pursuant to Section A Subpart G of this Chapter (CAR M), for the management of the continuing airworthiness of the aircraft it operates or contract such an organisation; and
2. be appropriately approved in accordance with Section A Subpart F of this Chapter (CAR M) (if not listed in paragraph G above) or CAR 145, or contract such organisations; and
3. ensure that paragraph (a) is satisfied.

(j) The owner/operator is responsible for granting the GCAA access to the organisation/aircraft to determine continued compliance with this chapter.

CAR M.202 Occurrence Reporting

(a) Any person or organisation responsible under CAR M.201 shall report to the GCAA, the organisation responsible for the type design or supplemental type design and, if applicable, the State of operator, any identified condition of an aircraft or component that hazards seriously the flight safety.
(b) Reports shall be made in a manner established by the GCAA and contain all pertinent information about the condition known to the person or organisation.

(c) Where the person or organisation maintaining the aircraft is contracted by an owner or an operator to carry out maintenance, the person or the organisation maintaining the aircraft shall also report to the owner, the operator or the continuing airworthiness management organisation any such condition affecting the owner’s or the operator’s aircraft or component.

(d) Reports shall be made as soon as practicable, but in any case within 72 hours of the person or organisation identifying the condition to which the report relates.
SUBPART C - CONTINUING AIRWORTHINESS

CAR M.301 Continuing Airworthiness Tasks

The aircraft continuing airworthiness and the serviceability of both operational and emergency equipment shall be ensured by:

1. the accomplishment of pre-flight inspections;

2. The rectification in accordance with the data specified in CAR M.304 and/or CAR M.401, as applicable, of any defect and damage affecting safe operation, taking into account, for all large aircraft or aircraft used for commercial air transport, the minimum equipment list and configuration deviation list as applicable to the aircraft type;

3. the accomplishment of all maintenance, in accordance with the CAR M.302 approved aircraft maintenance programme;

4. for all large aircraft or aircraft used for commercial air transport the analysis of the effectiveness of the CAR M.302 approved maintenance programme;

5. the accomplishment of any applicable:
   (i) airworthiness directive,
   (ii) operational directive with a continuing airworthiness impact,
   (iii) continued airworthiness requirement established by the GCAA,
   (iv) measures mandated by the GCAA in immediate reaction to a safety problem;

6. the accomplishment of modifications and repairs in accordance with CAR M.304;

7. for non-mandatory modifications and/or inspections, for all large aircraft or aircraft used for commercial air transport the establishment of an embodiment policy;

8. maintenance check flights, when necessary.

CAR M.302 Aircraft Maintenance Programme

(a) Maintenance of each aircraft shall be organised in accordance with an aircraft maintenance programme.

(b) The aircraft maintenance programme and any subsequent amendments shall be approved by the GCAA.

(c) When the continuing airworthiness of the aircraft is managed by a continuing airworthiness management organisation approved in accordance with Section A, Subpart G of this Chapter (CAR M), the aircraft maintenance programme and its amendments may be approved through an indirect approval procedure.
1. In that case, the indirect approval procedure shall be established by the continuing airworthiness management organisation as part of the Continuing Airworthiness Management Exposition and shall be approved by the GCAA.

2. The continuing airworthiness management organisation shall not use the indirect approval procedure when this organisation is not under the oversight of the GCAA, unless an agreement exists transferring the responsibility for the approval of the aircraft maintenance programme to the GCAA responsible for the continuing airworthiness management organisation.

(d) The aircraft maintenance programme must establish compliance with:

1. instructions issued by the GCAA;

2. instructions for continuing airworthiness:
   
   (i) Issued by the holders of the type certificate, restricted type certificate, supplemental type certificate, major repair design approval, ETSO authorisation or any other relevant approval issued under CAR 21, and

   (ii) Included in the certification specifications referred to in point 21.90B or 21.431B of CAR 21 if applicable

3. additional or alternative instructions proposed by the owner or the continuing airworthiness management organisation once approved in accordance with CAR M.302, except for intervals of safety related tasks referred in paragraph (e), which may be escalated, subject to sufficient reviews carried out in accordance with paragraph (g) and only when subject to direct approval in accordance with CAR M.302(b).

(e) The aircraft maintenance programme shall contain details, including frequency, of all maintenance to be carried out, including any specific tasks linked to the type and the specificity of operations.

(f) For large aircraft, when the maintenance programme is based on maintenance steering group logic or on condition monitoring, the aircraft maintenance programme shall include a reliability programme.

(g) The aircraft maintenance programme shall be subject to periodic reviews and amended accordingly when necessary. These reviews will ensure that the programme continues to be valid in light of the operating experience and instructions from the GCAA whilst taking into account new and/or modified maintenance instructions promulgated by the type certificate and relevant supplementary type certificate holders and any other organisation that publishes such data in accordance with CAR 21 or in accordance with any other Regulation recognised by the GCAA.

**CAR M.303 Airworthiness Directives**

Any applicable airworthiness directive must be carried out within the requirements of that airworthiness directive.
CAR M.304 Data For Modifications And Repairs

Damage shall be assessed and modifications and repairs carried out using as appropriate:

(a) data approved by the GCAA, or
(b) data approved by a CAR 21 design organisation, or
(c) Data contained in the certification specifications referred to in point 21.90B or 21.431B of CAR 21

CAR M.305 Aircraft Continuing Airworthiness Record System

(a) At the completion of any maintenance, the certificate of release to service required by CAR M.801 or CAR 145.50 shall be entered in the aircraft continuing airworthiness records. Each entry shall be made as soon as practicable but in no case more than 30 days after the day of the maintenance action.

(b) For all UAE registered aircraft having a valid Certificate of Airworthiness, the aircraft continuing airworthiness records shall consist of:

1. an aircraft logbook, engine logbook(s) or engine module log cards, propeller logbook(s) and log cards, for any service life limited component as appropriate, and,
2. The operator's technical log.

(c) The aircraft type and registration mark, the date, together with total flight time and/or flight cycles and/or landings, as appropriate, shall be entered in the aircraft logbooks.

(d) The aircraft continuing airworthiness records shall contain the current:

1. status of airworthiness directives and measures mandated by the GCAA in immediate reaction to a safety problem;
2. status of modifications and repairs;
3. status of compliance with maintenance programme;
4. status of service life limited components;
5. mass and balance report;
6. list of deferred maintenance.

(e) In addition to the authorised release document, AW Form 1 or equivalent, the following information relevant to any component installed (engine, propeller, engine module or service life-limited component) shall be entered in the appropriate engine or propeller logbook, engine module or service life limited component log card:

1. identification of the component, and;
2. 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, and;

3. the date together with the component’s accumulated total flight time and/or flight cycles and/or landings and/or calendar time, as appropriate, and;

4. the current paragraph (d) information applicable to the component.

(f) The person responsible for the management of continuing airworthiness tasks pursuant to Section A Subpart B of this Chapter (CAR M), shall control the records as detailed in this paragraph and present the records to the GCAA upon request.

(g) 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 in a manner that clearly shows the original entry.

(h) An owner or operator shall ensure that a system has been established to keep the following records for the periods specified:

1. all detailed maintenance records in respect of the aircraft and any service life-limited component fitted thereto, 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; and

2. the total time in service (hours, calendar time, cycles and landings) of the aircraft and all service life limited components, at least 12 months after the aircraft or component has been permanently withdrawn from service; and

3. 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, at least until the component scheduled maintenance has been superseded by another scheduled maintenance of equivalent work scope and detail; and

4. the current status of compliance with maintenance programme such that compliance with the approved aircraft maintenance programme can be established, at least until the aircraft or component scheduled maintenance has been superseded by other scheduled maintenance of equivalent work scope and detail; and

5. the current status of airworthiness directives applicable to the aircraft and components, at least 12 months after the aircraft or component has been permanently withdrawn from service; and

6. details of current modifications and repairs to the aircraft, engine(s), propeller(s) and any other component vital to flight safety, at least 12 months after they have been permanently withdrawn from service.
CAR M.306 Operator’s Technical Log System

(a) An aircraft technical log system shall contain the following information for each aircraft:

1. information about each flight, necessary to ensure continued flight safety, and;

2. the current aircraft certificate of release to service, and;

3. the current maintenance statement giving the aircraft maintenance status of what scheduled and out of phase maintenance is next due except that the GCAA may agree to the maintenance statement being kept elsewhere, and;

4. all outstanding deferred defects and related rectification actions that affect the operation of the aircraft, and;

5. any necessary guidance instructions on maintenance support arrangements.

(b) The aircraft technical log system and any subsequent amendment shall be approved by the GCAA.

(c) An operator shall ensure that the aircraft technical log is retained for 36 months after the date of the last entry.

CAR M.307 Transfer Of Aircraft Continuing Airworthiness Records

(a) The owner or operator shall ensure when an aircraft is permanently transferred from one owner or operator to another that the CAR M.305 continuing airworthiness records and, CAR M.306 operator’s technical log are also transferred.

(b) The owner shall ensure, when he contracts the continuing airworthiness management tasks to a continuing airworthiness management organisation, that the CAR M.305 continuing airworthiness records are transferred to the organisation.

(c) The time periods prescribed for the retention of records shall continue to apply to the new owner, operator or continuing airworthiness management organisation.
SUBPART D - MAINTENANCE STANDARDS

CAR M.401 Maintenance Data

(a) The person or organisation maintaining an aircraft shall have access to and use only applicable current maintenance data in the performance of maintenance including modifications and repairs.

(b) For the purposes of this Chapter, applicable maintenance data is:

1. any applicable requirement, procedure, standard or information issued by the GCAA,
2. any applicable airworthiness directive,
3. applicable instructions for continuing airworthiness, promulgated by the type certificate and relevant supplementary type certificate holders and any other organisation that publishes such data in accordance with CAR 21 or in accordance with any other Regulation recognised by the GCAA.
4. any applicable data issued in accordance with CAR 145.45(d).

(c) The person or organisation maintaining an aircraft shall ensure that all applicable maintenance data is current and readily available for use when required. The person or 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.

CAR M.402 Performance Of Maintenance

(a) All maintenance shall be performed by qualified personnel, following the methods, techniques, standards and instructions specified in the CAR M.401 maintenance data. Furthermore, an independent inspection shall be carried out after any flight safety sensitive maintenance task unless otherwise specified by CAR 145 and agreed by the GCAA.

(b) All maintenance shall be performed using the tools, equipment and material specified in the CAR M.401 maintenance data unless otherwise specified by CAR 145. Where necessary, tools and equipment shall be controlled and calibrated to an officially recognised standard.

(c) The area in which maintenance is carried out shall be well organised and clean in respect of dirt and contamination.

(d) All maintenance shall be performed within any environmental limitations specified in the CAR M.401 maintenance data.

(e) In case of inclement weather or lengthy maintenance, proper facilities shall be used.

(f) After completion of all maintenance a general verification must be carried out to ensure the aircraft or component is clear of all tools, equipment and any other extraneous parts and material, and that all access panels removed have been refitted.
CAR M.403 Aircraft Defects

(a) Any aircraft defect that hazards seriously the flight safety shall be rectified before further flight.

(b) Only the authorised certifying staff, according to CAR M.801(b)1, CAR M.801(d) or CAR 145 can decide, using CAR M.401 maintenance data, 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:

1. the approved minimum equipment list as mandated by the GCAA is used by the pilot; or,
2. aircraft defects are defined as being acceptable by the GCAA.

(c) Any aircraft defect that would not hazard seriously the flight safety shall be rectified as soon as practicable, after the date the aircraft defect was first identified and within any limits specified in the maintenance data.

(d) Any defect not rectified before flight shall be recorded in the CAR M.305 aircraft maintenance record system or CAR M.306 operator’s technical log system as applicable.

SUBPART E - COMPONENTS

CAR M.501 Installation

(a) No component may be fitted unless it is in a satisfactory condition, has been appropriately released to service on an AW Form 1 or equivalent as defined by the GCAA, unless otherwise specified in (CAR 21), (CAR 145) or Section A Subpart F of this Chapter (CAR M).

(b) Prior to installation of a component on an aircraft the person or approved maintenance organisation shall ensure that the particular component is eligible to be fitted when different modification and/or airworthiness directive configurations may be applicable.

(c) 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.

(d) Material being either raw material or consumable material shall only be used on an aircraft or on a component when the aircraft or component manufacturer states so in relevant maintenance data or as specified in CAR 145. Such material shall only be used when the material meets the required specification and has appropriate traceability. All material must be accompanied by documentation clearly relating to the particular material and containing conformity to specification statement plus both the manufacturing and supplier source.
CAR M.502 Component Maintenance

(a) The maintenance of components shall be performed by maintenance organisations appropriately approved in accordance with Section A, Subpart F of this Chapter (CAR M) or with CAR 145 or by an organisation approved to issue the equivalent documents specified in CAR M.501(a).

(b) By derogation from paragraph (a), maintenance of a component in accordance with aircraft maintenance data or, if agreed by the GCAA, in accordance with component maintenance data, may be performed by an A rated organisation approved in accordance with Section A, Subpart F of this Chapter (CAR M) or with (CAR 145) only whilst such components are fitted to the aircraft. Nevertheless, such an organisation may 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 AW Form 1 and shall be subject to the aircraft release requirements provided for in CAR M.801.

(c) By derogation from paragraph (a), maintenance of an engine/Auxiliary Power Unit (APU) component in accordance with engine/APU maintenance data or, if agreed by the GCAA, in accordance with component maintenance data, may be performed by a B rated organisation approved in accordance with Section A, Subpart F of this Chapter (CAR M) or with (CAR 145) only whilst such components are fitted to the engine/APU. Nevertheless, such B rated organisation may 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.

(d) Reserved

CAR M.503 Service Life Limited Components

(a) 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 CAR M.504(c).

(b) The approved service life is expressed in calendar time, flight hours, landings or cycles, as appropriate.

(c) At the end the approved service life, the component must be removed from the aircraft for maintenance, or for disposal in the case of components with a certified life limit.

CAR M.504 Control Of Unserviceable Components

(a) A component shall be considered unserviceable in any one of the following circumstances:

1. expiry of the service life limit as defined in the maintenance program;

2. non-compliance with the applicable airworthiness directives and other continued airworthiness requirement mandated by the GCAA;
3. absence of the necessary information to determine the airworthiness status or eligibility for installation;

4. evidence of defects or malfunctions;

5. involvement in an incident or accident likely to affect its serviceability.

(b) 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 aircraft not used in commercial air transport other than large aircraft, the person or organisation that declared the component unserviceable may transfer its custody, after identifying it as unserviceable, to the aircraft owner provided that such transfer is reflected in the aircraft logbook or engine logbook or component logbook.

(c) Components which have reached their certified life limit or contain a non-repairable defect shall be classified as unsalvageable and shall not be permitted to re-enter the component supply system, unless certified life limits have been extended or a repair solution has been approved according to CAR M.304.

(d) Any person or organisation accountable under CAR M shall, in the case of a paragraph (c) unsalvageable components:

1. retain such component in the paragraph (b) location, or;

2. 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.

(e) Notwithstanding paragraph (d) a person or organisation accountable under CAR M may transfer responsibility of components classified as unsalvageable to an organisation for training or research without mutilation.
SUBPART F - MAINTENANCE ORGANISATION

CAR M.601 Scope

This Subpart establishes the requirements to be met by an organisation to qualify for the issue or continuation of an approval for the maintenance of aircraft and components not listed in CAR M.201(g).

CAR M.602 Application

An application for issue or change of a maintenance organisation approval shall be made on a form and in a manner established by the GCAA.

CAR M.603 Extent Of Approval

(a) The grant of approval is indicated by the issue of a certificate by the GCAA. The CAR M.604 approved maintenance organisation manual must specify the scope of work deemed to constitute approval.

(b) The Appendix 4 to this Chapter defines all classes and ratings possible under Section A Subpart F of this Chapter (CAR M).

(c) An approved maintenance organisation may fabricate, in conformity with maintenance data, a restricted range of parts for their own use in the course of work undertaken within its own facilities, as identified in the maintenance organisation manual.

CAR M.604 Maintenance Organisation Manual

(a) The maintenance organisation shall provide a manual containing at least the following information:

1. a statement signed by the accountable manager to confirm that the organisation will continuously work in accordance with CAR M and the manual at all times. When the accountable manager is not the chief executive officer of the organisation then such chief executive officer shall countersign the statement, and;

2. the organisation's scope of work, and;

3. the title(s) and name(s) of person(s) referred to in CAR M.606(b), and;

4. an organisation chart showing associated chains of responsibility between the person(s) referred to in CAR M.606(b), and;

5. a list of certifying staff with their scope of approval, and;

6. a list of locations where maintenance is carried out, together with a general description of the facilities, and;
7. procedures specifying how the maintenance organisation ensures compliance with this Chapter, and;

8. the maintenance organisation manual amendment procedure(s).

(b) The maintenance organisation manual and its amendments shall be approved by the GCAA.

(c) Notwithstanding paragraph (b) minor amendments to the manual may be approved through a procedure (hereinafter called indirect approval).

CAR M.605 Facilities

The organisation shall ensure that:

(a) Facilities are provided for all planned work, specialised workshops and bays are segregated as appropriate, to ensure protection from contamination and the environment.

(b) Office accommodation is provided for the management of all planned work including in particular, the completion of maintenance records.

(c) Secure storage facilities are provided for components, equipment, tools and material. Storage conditions shall ensure segregation of unserviceable components and material from all other components, material, equipment and tools. Storage conditions shall be in accordance with the manufacturers' instructions and access shall be restricted to authorised personnel.

CAR M.606 Personnel Requirements

(a) The organisation shall appoint an accountable manager, who has corporate authority for ensuring that all maintenance required by the customer can be financed and carried out to the standard required by this Chapter.

(b) A person or group of persons shall be nominated with the responsibility of ensuring that the organisation is always in compliance with this Subpart. Such person(s) shall be ultimately responsible to the accountable manager.

(c) All paragraph (b) persons shall be able to show relevant knowledge, background and appropriate experience related to aircraft and/or component maintenance.

(d) The organisation shall have appropriate staff for the normal expected contracted work. The use of temporarily sub-contracted staff is permitted in the case of higher than normally expected contracted work and only for personnel not issuing a certificate of release to service.

(e) The qualification of all personnel involved in maintenance shall be demonstrated and recorded.

(f) Personnel who carry out specialised tasks such as welding, non-destructive testing/inspection other than colour contrast shall be qualified in accordance with an officially recognised standard.
(g) The maintenance organisation shall have sufficient certifying staff to issue CAR M.612 and CAR M.613 certificates of release to service for aircraft and components. They shall comply with the requirements of CAR 66.

(h) By derogation from paragraph (g), the organisation may use certifying staff qualified in accordance with the following provisions when providing maintenance support to operators involved in commercial operations, subject to appropriate procedures to be approved as part of the organisation’s manual:

1. For a repetitive pre-flight airworthiness directive which specifically states that the flight crew may carry out such airworthiness directive, the organisation may issue a limited certifying staff authorisation to the aircraft commander on the basis of the flight crew licence held, provided that the organisation ensures that sufficient practical training has been carried out to ensure that such person can accomplish the airworthiness directive to the required standard;

2. In the case of aircraft operating away from a supported location the organisation may issue a limited certifying staff authorisation to the aircraft commander on the basis of the flight crew licence, provided that the organisation ensures that sufficient practical training has been carried out to ensure that such person can accomplish the task to the required standard.

CAR M.607 Certifying Staff

(a) In addition to CAR M.606(g), certifying staff can only exercise their privileges, if the organisation has ensured:

1. that certifying staff can demonstrate that they meet the requirements of CAR 66.20(b), and;

2. that certifying staff have an adequate understanding of the relevant aircraft and/or aircraft component(s) to be maintained together with the associated organisation procedures.

(b) In the following unforeseen cases, where an aircraft is grounded at a location other than the main base where no appropriate certifying staff is available, the maintenance organisation contracted to provide maintenance support may issue a one-off certification authorisation:

1. to one of its employees holding type qualifications on aircraft of similar technology, construction and systems; or

2. to any person with not less than three years maintenance experience and holding a valid ICAO aircraft maintenance licence rated for the aircraft type requiring certification provided there is no organisation appropriately approved under this Chapter at that location and the contracted organisation obtains and holds on file evidence of the experience and the licence of that person.

3. All such cases must be reported to the GCAA within seven days of the issuance of such certification authorisation. The approved maintenance organisation issuing the one-off certification authorisation shall ensure that any such maintenance that could affect flight safety is re-checked.
(c) The approved maintenance organisation shall record all details concerning certifying staff and maintain a current list of all certifying staff together with their scope of approval as part of the organisation’s manual pursuant to CAR M.604(a).5.

CAR M.608 Components, Equipment And Tools

(a) The organisation shall:

1. hold the equipment and tools specified in the maintenance data described in CAR M.609 or verified equivalents as listed in the maintenance organisation manual as necessary for day-to-day maintenance within the scope of the approval; and,

2. demonstrate that it has access to all other equipment and tools used only on an occasional basis.

(b) Tools and equipment shall be controlled and calibrated to an officially recognised standard. Records of such calibrations and the standard used shall be kept by the organisation.

(c) The organisation shall inspect, classify and appropriately segregate all incoming components.

CAR M.609 Maintenance Data

The approved maintenance organisation shall hold and use applicable current maintenance data specified in CAR M.401 in the performance of maintenance including modifications and repairs. In the case of customer provided maintenance data, it is only necessary to have such data when the work is in progress.

CAR M.610 Maintenance Work Orders

Before the commencement of maintenance, a written work order shall be agreed between the organisation and the organisation requesting maintenance to clearly establish the maintenance to be carried out.

CAR M.611 Maintenance Standards

All maintenance shall be carried out in accordance with the requirements of Section A Subpart D of this Chapter (CAR M).

CAR M.612 Aircraft Certificate Of Release To Service

At the completion of all required aircraft maintenance in accordance with this Subpart an aircraft certificate of release to service shall be issued in accordance with M.801.

CAR M.613 Component Certificate Of Release To Service

(a) At the completion of all required component maintenance in accordance with this Subpart a component certificate of release to service shall be issued in accordance with CAR M.802. AW
Form 1 shall be issued except for those components maintained in accordance with CAR M.502(b) and components fabricated in accordance with CAR M.603(c).

(b) The component certificate release to service document, AW Form 1 may be generated from a computer database.

CAR M.614 Maintenance Records

(a) The approved maintenance organisation shall record all details of work carried out. Records necessary to prove all requirements have been met for issuance of the certificate of release to service including the sub-contractor’s release documents shall be retained.

(b) The approved maintenance organisation shall provide a copy of each certificate of release to service to the aircraft owner, together with a copy of any specific approved repair/modification data used for repairs/modifications carried out.

(c) The approved maintenance organisation shall retain a copy of all maintenance records and any associated maintenance data for three years from the date the aircraft or aircraft component to which the work relates was released from the approved maintenance organisation.

1. The records under this paragraph shall be stored in a manner that ensures protection from damage, alteration and theft.

2. All computer hardware used to ensure backup shall be stored in a different location from that containing the working data in an environment that ensures they remain in good condition.

3. Where an approved maintenance organisation terminates its operation, all retained maintenance records covering the last three years shall be distributed to the last owner or customer of the respective aircraft or component or shall be stored as specified by the GCAA.

CAR M.615 Privileges Of The Organisation

The maintenance organisation approved in accordance with Section A, Subpart F of this Chapter (CAR M), may:

(a) maintain any aircraft and/or component for which it is approved at the locations specified in the approval certificate and the maintenance organisation manual;

(b) arrange for the performance of specialised services under the control of the maintenance organisation at another organisation appropriately qualified, subject to appropriate procedures being established as part of the Maintenance Organisation Manual approved by the GCAA directly;

(c) maintain any aircraft and/or component for which it is approved at any location subject to the need of such maintenance arising either from the un-serviceability of the aircraft or from the necessity of supporting occasional maintenance, subject to the conditions specified in the Maintenance Organisation Manual;
(d) issue certificates of release to service on completion of maintenance, in accordance with CAR M.612 or CAR M.613.

CAR M.616 Organisational Review

To ensure that the approved maintenance organisation continues to meet the requirements of this Subpart, it shall organise, on a regular basis, organisational reviews.

CAR M.617 Changes To The Approved Maintenance Organisation

In order to enable the GCAA to determine continued compliance with this Chapter, the approved maintenance organisation shall notify it of any proposal to carry out any of the following changes, before such changes take place:

1. the name of the organisation;
2. the location of the organisation;
3. additional locations of the organisation;
4. the accountable manager;
5. any of the persons specified in paragraph CAR M.606(b);
6. the facilities, equipment, tools, material, procedures, work scope and certifying staff that could affect the approval.

In the case of proposed changes in personnel not known to the management beforehand, these changes shall be notified at the earliest opportunity.

CAR M.618 Continued Validity Of Approval

(a) An approval shall be issued for one year. It shall remain valid subject to:

1. the organisation remaining in compliance with this Chapter, in accordance with the provisions related to the handling of findings as specified under CAR M.619, and;
2. the GCAA being granted access to the organisation to determine continued compliance with this Chapter, and;
3. the approval not being surrendered or revoked;

(b) Upon surrender or revocation, the approval certificate shall be returned to the GCAA.
CAR M.619 Findings

(a) Level One (1): A significant non-compliance with regulations, which could jeopardize overall safety and requires immediate corrective action. A maintenance organisation’s approval certificate may be provisionally suspended in whole or in part depending upon the extent of the Level 1 finding until corrective action has been taken.

(b) Level Two (2): Non-compliance with regulations or the maintenance organisation’s procedures, which could lower the organisation’s safety standard. A level 2 finding requires corrective action and compliance within a period not exceeding thirty (30) days of first notification (inspectors shall use their discretion in setting the time frame).

Note: Repeated Level Two (2) findings could be an indication of deterioration on the organisation’s standards and controls. In this case the inspector may decide to raise it to Level 1 and limitation(s) on the maintenance organisation shall apply.

(c) Level Three (3) (Observations): Minor irregularities which are considered as observations only and warrant attention.

(d) After receipt of notification of findings, the holder of the maintenance organisation approval shall identify the root cause of each finding and define an action plan, including corrective and preventive actions, to address the finding(s) and prevent reoccurrence to the satisfaction of the GCAA. The action plan must be complied with within the period agreed with the GCAA. Action shall be taken by the GCAA to suspend in whole or part the approval in case of failure by an organisation to comply within the timescale granted by the GCAA.
SUBPART G - CONTINUING AIRWORTHINESS MANAGEMENT ORGANISATION

CAR M.701 Scope
This Subpart establishes the requirements to be met by an organisation to qualify for the issue or continuation of an approval for the management of aircraft continuing airworthiness.

CAR M.702 Application
An application for issue or change of a continuing airworthiness management organisation approval shall be made on a form and in a manner established by the GCAA.

CAR M.703 Extent Of Approval

(a) The approval is indicated on a certificate included in Appendix VI issued by the GCAA.

(b) Notwithstanding paragraph (a), for commercial air transport, the approval shall be part of the air operator certificate issued by the GCAA, for the aircraft operated.

(c) The scope of work deemed to constitute the approval shall be specified in the continuing airworthiness management exposition in accordance with CAR M.704.

CAR M.704 Continuing Airworthiness Management Exposition

(a) The continuing airworthiness management organisation shall provide a continuing airworthiness management exposition containing the following information:

1. a statement signed by the accountable manager to confirm that the organisation will work in accordance with this Chapter and the exposition at all times. When the accountable manager is not the chief executive officer of the organisation then such chief executive officer shall countersign the statement, and;

2. the organisation's scope of work, and;

3. the title(s) and name(s) of person(s) referred to in CAR M.706(a), CAR M.706(c) and CAR M.706(d), and;

4. an organisation chart showing associated chains of responsibility between all the person(s) referred to in CAR M.706(a), CAR M.706(c) and CAR M.706(d);

5. a list of the airworthiness review staff referred to in CAR M.707, and;

6. a general description and location of the facilities, and;

7. procedures specifying how the continuing airworthiness management organisation ensures compliance with this Chapter, and;

8. the continuing airworthiness management exposition amendment procedures.
9. For:

(i) CAR M. Subpart G organisations which are part of a commercial air transport operator: The list of approved aircraft maintenance programmes for those aircraft which are part of the AOC of this operator, and a generic list of aircraft managed under Subpart G approval (if applicable).

(ii) CAR M. Subpart G organisations which are not part of a commercial air transport operator, the list of approved aircraft maintenance programmes, and/or “generic” and/or “baseline” maintenance programmes for aircraft included within the scope of approval (as applicable).

(b) The continuing airworthiness management exposition and its amendments shall be approved by the GCAA. Notwithstanding this, minor amendments to the exposition may be approved indirectly through an indirect approval procedure. The indirect approval procedure shall define the minor amendment eligible, be established by the continuing airworthiness management organisation as part of the exposition and be approved by the GCAA.

CAR M.705 Facilities

The continuing airworthiness management organisation shall provide suitable office accommodation at appropriate locations for the personnel specified in CAR M.706.

CAR M.706 Personnel Requirements

(a) The organisation shall appoint an accountable manager, who has corporate authority for ensuring that all continuing airworthiness management activities can be financed and carried out in accordance with this Chapter.

(b) For commercial air transport the paragraph (a) accountable manager shall be the person who also has corporate authority for ensuring that all the operations of the operator can be financed and carried out to the standard required for the issue of an air operator's certificate.

(c) A person or group of persons shall be nominated with the responsibility of ensuring that the organisation is always in compliance with this Subpart. Such person(s) shall be ultimately responsible to the accountable manager.

(d) For commercial air transport, the accountable manager shall designate a nominated post holder. This person shall be responsible for the management and supervision of continuing airworthiness activities, pursuant to paragraph (c).

(e) The nominated post holder referred to in paragraph (d) shall not be employed by a CAR 145 approved organisation under contract to the operator, unless specifically agreed by the GCAA.

(f) The organisation shall have sufficient appropriately qualified staff for the expected work.

(g) All paragraph (c) and (d) persons shall be able to show relevant knowledge, background and appropriate experience related to aircraft continuing airworthiness.
(h) The qualification of all personnel involved in continuing airworthiness management shall be recorded.

(i) Reserved

(j) The organisation shall define and keep updated in the continuing airworthiness management exposition the title(s) and name(s) of person(s) referred to in CAR M.706(a), CAR M.706(c), CAR M.706(d).

(k) For all large aircraft and for aircraft used for commercial air transport the organisation shall establish and control the competence of personnel involved in the continuing airworthiness management, airworthiness review and/or quality audits in accordance with a procedure and to a standard agreed by the GCAA.

CAR M.707 Airworthiness Review Staff

(a) To be approved to carry out airworthiness reviews an approved continuing airworthiness management organisation shall have appropriate airworthiness review staff to issue airworthiness review certificates or recommendations referred to in Section A Subpart I of this Chapter (CAR M).

1. For all aircraft used in commercial air transport, and aircraft above 2 730 kg MTOM, except balloons, these staff shall have acquired:

   (i) at least five years’ experience in continuing airworthiness; and

   (ii) an appropriate license in compliance with CAR 66 or an aeronautical degree or a national equivalent; and

   (iii) formal aeronautical maintenance training; and

   (iv) a position within the approved organisation with appropriate responsibilities.

   (v) Notwithstanding (i) to (iv), the requirement laid down in CAR M.707(a)1(ii) may be replaced by five years of experience in continuing airworthiness additional to those already required by CAR M.707(a)1(i).

2. For aircraft not used in commercial air transport of 2730 kg MTOM and below, and balloons, these staff shall have acquired:

   (i) at least three years’ experience in continuing airworthiness, and

   (ii) an appropriate licence in compliance with CAR 66 or an aeronautical degree or a national equivalent; and

   (iii) appropriate aeronautical maintenance training; and

   (iv) a position within the approved organisation with appropriate responsibilities;
(v) Notwithstanding (i) to (iv), the requirement laid down in CAR M.707(a)2(ii) may be replaced by four years of experience in continuing airworthiness additional to those already required by CAR M.707(a)2(i).

(b) Airworthiness review staff nominated by the approved continuing airworthiness organisation can only be issued an authorisation by the approved continuing airworthiness organisation when formally accepted by the GCAA after satisfactory completion of an airworthiness review under supervision.

(c) The organisation shall ensure that aircraft airworthiness review staff can demonstrate appropriate recent continuing airworthiness management experience.

(d) Airworthiness review staff shall be identified by listing each person in the continuing airworthiness management exposition together with their airworthiness review authorisation reference.

(e) The organisation shall maintain a record of all airworthiness review staff, which shall include details of any appropriate qualification held together with a summary of relevant continuing airworthiness management experience and training and a copy of the authorisation. This record shall be retained until two years after the airworthiness review staff have left the organisation.

CAR M.708 Continuing Airworthiness Management

All continuing airworthiness management shall be carried out according to the prescriptions of Section A Subpart C of this Chapter (CAR M).

(a) For every aircraft managed, the approved continuing airworthiness management organisation shall:

1. develop and control a maintenance programme for the aircraft managed including any applicable reliability programme,

2. present the aircraft maintenance programme and its amendments to the GCAA for approval, unless covered by an indirect approval procedure in accordance with CAR M.302(c), and provide a copy of the programme to the owner/operator of aircraft, if applicable

3. manage the approval of modification and repairs,

4. ensure that all maintenance is carried out in accordance with the approved maintenance programme and released in accordance with Section A Subpart H of this Chapter (CAR M),

5. ensure that all applicable airworthiness directives and operational directives with a continuing airworthiness impact, are applied,

6. ensure that all defects discovered during scheduled maintenance or reported are corrected by an appropriately approved maintenance organisation,
7. ensure that the aircraft is taken to an appropriately approved maintenance organisation whenever necessary,

8. coordinate scheduled maintenance, the application of airworthiness directives, the replacement of service life limited parts, and component inspection to ensure the work is carried out properly,

9. manage and archive all continuing airworthiness records and/or operator's technical log.

10. ensure that the mass and balance statement reflects the current status of the aircraft.

(b) In the case of large aircraft, or commercial air transport, when the operator is not appropriately approved to CAR 145, the operator shall establish a written maintenance contract between the operator and a CAR 145 approved organisation or another operator, detailing the functions specified under CAR M.301-2, CAR M.301-3, CAR M.301-5 and CAR M.301-6, ensuring that all maintenance is ultimately carried out by a CAR 145 approved maintenance organisation and defining the support of the quality functions of CAR M.712(b). The aircraft base, scheduled line maintenance and engine maintenance contracts, together with all amendments, shall be approved by the GCAA prior to entry into force. However, in the case of:

1. an aircraft requiring unscheduled line maintenance, the contract may be in the form of individual work orders addressed to a CAR 145 maintenance organisation.

2. for engine maintenance, the contract as referred to in paragraph (b) may be in the form of a contract between the operator and an engine manufacturer or other third party programme provider offering a ‘power by the hour’ style engine off-wing support programme. In such cases the contract should specify that maintenance is to be carried out by a CAR 145 approved organisation. In this case each shop visit contract may be in the form of an individual work order addressed to a CAR 145 maintenance organisation.

3. for component maintenance, the contract as referred to in paragraph (b) may be in the form of individual work orders addressed to the maintenance organisation able to provide an acceptable release certificate in accordance with CAR M.501(a)

**CAR M.709 Documentation**

(a) The approved continuing airworthiness management organisation shall hold and use applicable current maintenance data in accordance with CAR M.401 for the performance of continuing airworthiness tasks referred to in CAR M.708. This data may be provided by the owner or the operator, subject to an appropriate contract being established with such an owner or operator. In such case, the continuing airworthiness management organisation only needs to keep such data for the duration of the contract, except when required by CAR M.714.

(b) For aircraft not included in the AOC of the CAR M. Subpart G organisation the approved continuing airworthiness management organisation may develop "baseline" and/or "generic" maintenance programmes in order to allow for the initial approval and/or the extension of the scope of an approval without having the contracts referred to in Appendix I to this Chapter (CAR M). These "baseline" and/or "generic" maintenance programmes however do not
preclude the need to establish an adequate Aircraft Maintenance Programme in compliance with CAR M.302 in due time before exercising the privileges referred to in CAR M.711.

**CAR M.710 Airworthiness Review**

(a) To satisfy the requirement for the airworthiness review of an aircraft referred to in CAR M.901, a full documented review of the aircraft records shall be carried out by the approved continuing airworthiness management organisation in order to be satisfied that:

1. airframe, engine and propeller flying hours and associated flight cycles have been properly recorded; and
2. the flight manual is applicable to the aircraft configuration and reflects the latest revision status; and
3. all the maintenance due on the aircraft according to the approved maintenance programme has been carried out, and;
4. all known defects have been corrected or, when applicable, carried forward in a controlled manner, and;
5. all applicable airworthiness directives have been applied and properly registered, and;
6. all modifications and repairs applied to the aircraft have been registered and are approved according to CAR 21, and;
7. all service life limited components installed on the aircraft are properly identified, registered and have not exceeded their approved service life limit, and;
8. all maintenance has been released in accordance with this Chapter, and;
9. the current mass and balance statement reflects the configuration of the aircraft and is valid, and;
10. the aircraft complies with the latest revision of its type design approved by the GCAA.
11. if required, the aircraft holds a noise certificate corresponding to the current configuration of the aircraft in compliance with Subpart I of CAR-21).
12. A flight test report, if required by the GCAA, and in accordance with CAR Part V, Chapter 2, Section 10.

(b) The airworthiness review staff of the approved continuing airworthiness management organisation shall carry out a physical survey of the aircraft. For this survey, airworthiness review staff not appropriately qualified to issue a CAR M Subpart H or CAR 145 certificate of release to service as appropriate for the type, for any work that may be carried out shall be assisted by such qualified personnel.

(c) Through the physical survey of the aircraft, the airworthiness review staff shall ensure that:

1. all required markings and placards are properly installed; and
2. the aircraft complies with its approved flight manual; and
3. the aircraft configuration complies with the approved documentation; and
4. no evident defect can be found that has not been addressed according to CAR M.403; and
5. no inconsistencies can be found between the aircraft and the paragraph (a) documented review of records.

(d) By derogation to CAR M.901(a), the airworthiness review can be anticipated by a maximum period of 90 days without loss of continuity of the airworthiness review pattern, to allow the physical review to take place during a maintenance check.

(e) The airworthiness review certificate (AWF-ARC-15b) or the recommendation is issued by appropriately authorised CAR M.707 airworthiness review staff on behalf of the approved continuing airworthiness management organisation when satisfied that the airworthiness review has been properly carried out.

(f) Upon issue, the original airworthiness review certificate shall be forwarded to the GCAA for endorsement.

(g) Airworthiness review tasks shall not be sub-contracted.

(h) Should the outcome of the airworthiness review be inconclusive, the GCAA shall be informed as soon as practicable but in any case within 72 hours of the organisation identifying the condition to which the review relates.

CAR M.711 Privileges Of The Organisation

(a) A continuing airworthiness management organisation approved in accordance with Section A, Subpart G of this Chapter (CAR M) may:

1. manage the continuing airworthiness of aircraft; except those involved in commercial air transport, as listed on the approval certificate.

2. manage the continuing airworthiness of commercial air transport when listed both on its approval certificate and on its Air Operator Certificate (AOC).

3. arrange to carry out limited continuing airworthiness tasks with any contracted organisation, working under its quality system, as listed on the approval certificate;

4. Reserved

(b) An approved continuing airworthiness management organisation may, additionally, be approved to carry out airworthiness reviews referred to in CAR M.710 and:

1. issue the related airworthiness review certificate

2. issue a recommendation for the airworthiness review to the GCAA.
CAR M.712 Quality System

(a) To ensure that the approved continuing airworthiness management organisation continues to meet the requirements of this Subpart, it shall establish a quality system and designate a quality manager to monitor compliance with, and the adequacy of, procedures required to ensure airworthy aircraft. Compliance monitoring shall include a feedback system to the accountable manager to ensure corrective action as necessary.

(b) The quality system shall monitor CAR M. Subpart G activities. It shall at least include the following functions:

1. monitoring that all CAR M. Subpart G activities are being performed in accordance with the approved procedures, and;

2. monitoring that all contracted maintenance is carried out in accordance with the contract, and;

3. monitoring the continued compliance with the requirements of this Chapter.

(c) The records of these activities shall be stored for at least two years.

(d) Where the approved continuing airworthiness management organisation is approved in accordance with another CAR Part or Chapter, the quality system may be combined with that required by the other Part or Chapter.

(e) In case of commercial air transport the CAR M. Subpart G quality system shall be an integrated part of the operator’s quality system.

(f) In the case of a small organisation not managing the continuing airworthiness of aircraft used in commercial air transport, the quality system may be replaced by regular organisational reviews subject to the approval of the GCAA, except when the organisation issues airworthiness review certificates for aircraft above 2730 kg MTOM. In the case where there is no quality system, the organisation shall not contract continuing airworthiness management tasks to other parties.

CAR M.713 Changes To The Approved Continuing Airworthiness Organisation

In order to enable the GCAA to determine continued compliance with this Chapter, the approved continuing airworthiness management organisation shall notify it of any proposal to carry out any of the following changes, before such changes take place:

1. the name of the organisation.

2. the location of the organisation.

3. additional locations of the organisation.

4. the accountable manager.

5. any of the persons specified in CAR M.706(c).
6. the facilities, procedures, work scope and staff that could affect the approval.

In the case of proposed changes in personnel not known to the management beforehand, these changes shall be notified at the earliest opportunity.

**CAR M.714 Record Keeping**

(a) The continuing airworthiness management organisation shall record all details of work carried out. The records required by CAR M.305 and if applicable CAR M.306 shall be retained.

(b) If the continuing airworthiness management organisation has the privilege referred to in CAR M.711(b), it shall retain a copy of each airworthiness review certificate and recommendation issued together with all supporting documents.

(c) Reserved

(d) The continuing airworthiness management organisation shall retain a copy of all records referred to in paragraph (b) until two years after the aircraft has been permanently withdrawn from service.

(e) The records shall be stored in a manner that ensures protection from damage, alteration and theft.

(f) All computer hardware used to ensure backup shall be stored in a different location from that containing the working data in an environment that ensures they remain in good condition.

(g) Where continuing airworthiness management of an aircraft is transferred to another organisation or person, all retained records shall be transferred to the said organisation or person. The time periods prescribed for the retention of records shall continue to apply to the said organisation or person.

(h) Where a continuing airworthiness management organisation terminates its operation, all retained records shall be transferred to the owner of the aircraft.

**CAR M.715 Continued Validity Of Approval**

(a) An approval shall be issued with 1 year validity, unless otherwise specified by the GCAA. It shall remain valid subject to:

1. the organisation remaining in compliance with this Chapter, in accordance with the provisions related to the handling of findings and;

2. the GCAA being granted access to the organisation to determine continued compliance with this Chapter, and;

3. the approval not being surrendered or revoked.

(b) Upon surrender or revocation, the approval certificate shall be returned to the GCAA.
CAR M.716 Findings

(a) Level One (1): A significant non-compliance with CAR M regulations, which could jeopardize overall safety and requires immediate corrective action. A continuing airworthiness management organisation’s approval may be provisionally suspended in whole or in part depending upon the extent of the Level 1 finding until corrective action has been taken.

(b) Level Two (2): Non-compliance with CAR M regulations or continuing airworthiness management organisation procedures, which could lower the Organisation’s operation, maintenance, and safety standard, which require corrective action and compliance within a period not exceeding thirty (30) days of first notification (inspectors shall use their discretion in setting the time frame).

Note: Repeated Level Two (2) findings could be an indication of deterioration on the organisations standards and controls. In this case the inspector may decide to raise it to Level 1 and limitation(s) on the operation shall apply.

(c) Level Three (3) (Observations): Minor irregularities which are considered as observations only and warrant attention.

(d) After receipt of notification of findings, the holder of the continuing airworthiness management organisation approval shall identify the root cause of each finding and define an action plan, including corrective and preventive actions to address the finding(s) and prevent reoccurrence to the satisfaction of the GCAA. The action plan must be complied with within the period agreed with the GCAA. Action shall be taken by the GCAA to suspend in whole or part the approval in case of failure by an organisation to comply within the timescale granted by the GCAA.
SUBPART H - CERTIFICATE OF RELEASE TO SERVICE — CRS

CAR M.801 Aircraft Certificate Of Release To Service

(a) Except for aircraft released to service by a maintenance organisation approved in accordance with CAR 145, the certificate of release to service shall be issued according to this Subpart;

(b) No aircraft shall be released to service unless a certificate of release to service is issued at the completion of any maintenance, when satisfied that all maintenance required has been properly carried out, by:

1. appropriate certifying staff on behalf of the maintenance organisation approved in accordance with Section A, Subpart F of this Chapter (CAR M); or

2. Reserved

3. Reserved

(c) Reserved

(d) Reserved

(e) Reserved

(f) A certificate of release to service shall contain as a minimum:

1. basic details of the maintenance carried out; and

2. the date such maintenance was completed; and

3. the identity of the organisation and/or person issuing the release to service, including:

   (i) the approval reference of the maintenance organisation approved in accordance with Section A, Subpart F of this Chapter (CAR M) and the certifying staff issuing such a certificate;

   (ii) Reserved

4. the limitations to airworthiness or operations, if any.

(g) By derogation from paragraph (b) and notwithstanding the provisions of paragraph (h) and provided that it is explicitly authorised by the GCAA, when the maintenance prescribed cannot be completed, a certificate of release to service may be issued within the approved aircraft limitations. Such fact together with any applicable limitations of the airworthiness or the operations shall be entered in the aircraft certificate of release to service before its issue as part of the information required in paragraph (f) 4;

(h) A certificate of release to service shall not be issued in the case of any known non-compliance which endangers flight safety.
CAR M.802 Component Certificate Of Release To Service

(a) A certificate of release to service shall be issued at the completion of any maintenance carried out on an aircraft component in accordance with CAR M.502.

(b) The authorised release certificate identified as AW Form 1 constitutes the component certificate of release to service, except when such maintenance on aircraft components has been performed in accordance with CAR M.502(b), in which case the maintenance is subject to aircraft release procedures in accordance with CAR M.801.

CAR M.803 Reserved

SUBPART I - AIRWORTHINESS REVIEW CERTIFICATE

CAR M.901 Aircraft Airworthiness Review

To ensure the validity of the aircraft certificate of airworthiness, an airworthiness review of the aircraft and its continuing airworthiness records shall be carried out periodically.

(a) An airworthiness review certificate is issued in a form approved by the GCAA on completion of a satisfactory airworthiness review. The airworthiness review certificate is valid for one year provided that the certificate is accepted by the GCAA. This acceptance is indicated by endorsing the certificate;

(b) An aircraft in a controlled environment is an aircraft:

1. continuously managed by a single continuing airworthiness management organisation approved in accordance with Section A, Subpart G, of this CAR M, and

2. which has been maintained by maintenance organisations approved in accordance with Section A, Subpart F of this CAR M, or with CAR 145.

(c) For all aircraft, that are in a controlled environment, the organisation referred to in (b) managing the continuing airworthiness of the aircraft may, if appropriately approved, and subject to compliance with paragraph (k):

1. Issue an airworthiness review certificate in accordance with CAR M.710.

2. Reserved

(d) When continuing airworthiness of any aircraft is managed by a continuing airworthiness management organisation that does not hold the privilege to carry out airworthiness reviews on that type, the airworthiness review certificate shall be issued by the GCAA upon satisfactory assessment based on a recommendation made by a continuing airworthiness management organisation appropriately approved in accordance with Section A, Subpart G of this Chapter (CAR M) sent together with the application from the owner or operator. This recommendation shall be based on an airworthiness review carried out in accordance with CAR M.710;
Whenever circumstances reveal the existence of a potential safety threat, the GCAA shall carry out the airworthiness review and issue the airworthiness review certificate itself;

In addition to paragraph (h), the GCAA may also carry out the airworthiness review and issue the airworthiness review certificate itself in the following cases:

1. for aircraft not involved in commercial air transport when the aircraft is managed by a continuing airworthiness management organisation approved in accordance with Section A, Subpart G of this chapter (CAR M) located in a third country;
2. Reserved

When the GCAA carries out the airworthiness review and/or issues the airworthiness review certificate itself, the organisation appropriately approved in accordance with Section A, Subpart G of this Chapter (CAR M) managing the aircraft shall provide the GCAA with:

1. the documentation required by the GCAA; and
2. suitable accommodation at the appropriate location for its personnel; and
3. when necessary, the support of personnel appropriately qualified in accordance with CAR 66 or equivalent personnel requirements laid down in CAR 145.30(j)(1) and (2) of (CAR 145) or CAR M.607(a) of Section A, Subpart G of this Chapter (CAR M).

An airworthiness review certificate cannot be issued if there is evidence or reason to believe that the aircraft is not airworthy;

The airworthiness review certificate is considered to be part of the Aircraft Certificate of Airworthiness. The GCAA’s endorsed airworthiness review certificate shall be carried on board the aircraft along with the Certificate of Airworthiness.

CAR M.902 Validity Of The Airworthiness Review Certificate

An airworthiness review certificate becomes invalid if:

1. suspended or revoked; or
2. the certificate of airworthiness is suspended, revoked or becomes invalid due to any reason specified in CAR 21.181; or
3. the aircraft is not on the aircraft register of the United Arab Emirates; or
4. the type certificate under which the certificate of airworthiness was issued is suspended or revoked, or
5. the 1 year validity period is lapsed unless specifically extended by the GCAA.

(b) An aircraft must not fly if the certificate of airworthiness is invalid or if:

1. the continuing airworthiness of the aircraft or any component fitted to the aircraft does not meet the requirements of this Chapter, or;

2. the aircraft does not remain in conformity with the type design approved by the GCAA; or

3. the aircraft has been operated beyond the limitations of the approved flight manual or the-airworthiness certificate, without appropriate action being taken; or

4. the aircraft has been involved in an accident or incident that affects the airworthiness of the aircraft, without subsequent appropriate action to restore airworthiness; or

5. a modification or repair has not been approved in accordance with CAR 21.

(c) Upon surrender or revocation, the airworthiness review certificate shall be returned to the GCAA.

(d) Airworthiness review certificate endorsement procedure:

1. The organisation responsible for the continued airworthiness of the aircraft as per CAR M.201 shall apply for the endorsement of the Airworthiness Review Certificate in a form and a manner established by the GCAA.

2. The original Airworthiness Review Certificate shall be submitted to the GCAA along with all the required supporting documents.

CAR M.903 Transfer Of Aircraft Registration

(a) Reserved

(b) Reserved

(c) When transferring an aircraft registration to another country and upon the importing authority’s request, the GCAA shall issue an export certificate of airworthiness for this aircraft as per CAR PART V, Chapter II, Section 13 subject to it having an airworthiness review carried out satisfactorily in accordance with CAR M.901.

CAR M.904 Airworthiness review of aircraft imported into the United Arab Emirates

(a) When importing an aircraft onto the UAE register from a third country, the applicant shall:

1. apply for the issuance of a new certificate of airworthiness in accordance with CAR 21;

2. have an airworthiness review carried out satisfactorily in accordance with CAR M. 901; and
3. have all maintenance carried out to comply with the approved maintenance programme in accordance with CAR M.302.

(b) When satisfied that the aircraft is in compliance with the relevant requirements, the continuing airworthiness management organisation, if applicable, shall send a documented recommendation for the issuance of an airworthiness review certificate to the GCAA.

(c) The owner shall allow access to the aircraft for inspection by the GCAA.

(d) A new certificate of airworthiness will be issued by the GCAA when it is satisfied the aircraft complies with the prescriptions of CAR 21.

(e) The GCAA shall also issue the airworthiness review certificate valid normally for one year unless the GCAA has safety reasons to limit the validity.

CAR M.905 Findings

(a) Level One (1): A significant non-compliance with CAR M regulations, which could jeopardize overall safety and requires immediate corrective action. A continuing airworthiness management organisation’s approval may be provisionally suspended in whole or in part depending upon the extent of the Level 1 finding until corrective action has been taken.

(b) Level Two (2): Non-compliance with CAR M regulations or continuing airworthiness management organisation procedures, which could lower the Organisation’s operation, maintenance and safety standard, which require corrective action and compliance within a period not exceeding thirty (30) days of first notification (inspectors shall use their discretion in setting the time frame).

Note: Repeated Level Two (2) findings could be an indication of deterioration on the organisation's standards and controls. In this case, the inspector may decide to raise it to Level 1 and limitation(s) on the operation shall apply.

(c) Level Three (3) (Observations): Minor irregularities which are considered as observations only and warrant attention.

(d) After receipt of notification of findings, the person or organisation accountable according to CAR M.201 shall identify the root cause of each finding and define an action plan, including corrective and preventive actions to address the finding(s) and prevent reoccurrence to the satisfaction of the GCAA. The action plan must be complied with within the period agreed with the GCAA. Action shall be taken by the GCAA to suspend in whole or part the approval in case of failure by an organisation to comply within the timescale granted by the GCAA.
APPENDICES

APPENDIX I - Continuing Airworthiness Arrangement

1. When an owner contracts a CAR M. Subpart G approved continuing airworthiness organisation in accordance with CAR M.201 to carry out continuing airworthiness management tasks, upon request by the GCAA a copy of the arrangement shall be sent by the owner to the GCAA once it has been signed by both parties.

2. The arrangement shall be developed taking into account the requirements of CAR M and shall define the obligations of the signatories in relation to continuing airworthiness of the aircraft.

3. It shall contain as a minimum the:

   (i) aircraft registration,
   (ii) aircraft type,
   (iii) aircraft serial number,
   (iv) aircraft owner or registered lessee's name or company details including the address, CAR M. Subpart G approved continuing airworthiness organisation details including the address.

4. It shall state the following:

   ‘The owner entrusts to the approved organisation the management of the continuing airworthiness of the aircraft, the development of a maintenance programme that shall be approved by the GCAA, and the organisation of the maintenance of the aircraft according to said maintenance programme in an approved organisation. According to the present arrangement, both signatories undertake to follow the respective obligations of this arrangement. The owner certifies, to the best of their belief that all the information given to the approved organisation concerning the continuing airworthiness of the aircraft is and will be accurate and that the aircraft will not be altered without prior approval of the approved organisation.

   In case of any non-conformity with this arrangement, by either of the signatories, it will become null. In such a case, the owner will retain full responsibility for every task linked to the continuing airworthiness of the aircraft and the owner will undertake to inform the GCAA within two full weeks.’

5. When an owner contracts an CAR M. Subpart G approved continuing airworthiness organisation in accordance with CAR M.201 the obligations of each party shall be shared as follows:

   5.1 Obligations of the approved organisation:

      5.1.1 have the aircraft’s type in the scope of its approval;

      5.1.2 respect the conditions to maintain the continuing airworthiness of the aircraft listed below:
(i) develop a maintenance programme for the aircraft, including any reliability programme developed,

(ii) organise the approval of the aircraft's maintenance programme,

(iii) once it has been approved, give a copy of the aircraft's maintenance programme to the owner,

(iv) organise a bridging inspection with the aircraft's prior maintenance programme,

(v) organise for all maintenance to be carried out by an approved maintenance organisation,

(vi) organise for all applicable airworthiness directives to be applied,

(vii) organise for all defects discovered during scheduled maintenance or reported by the owner to be corrected by an approved maintenance organisation,

(viii) coordinate scheduled maintenance, the application of airworthiness directives, the replacement of life limited parts, and component inspection requirements,

(ix) inform the owner each time the aircraft shall be brought to an approved maintenance organisation,

(x) manage all technical records,

(xi) archive all technical records;

5.1.3 organise the approval of all and any modification to the aircraft according to CAR-21 before it is embodied;

5.1.4 organise the approval of all and any repair to the aircraft according to CAR-21 before it is carried out;

5.1.5 inform the GCAA whenever the aircraft is not presented to the approved maintenance organisation by the owner as requested by the approved organisation;

5.1.6 inform the GCAA whenever the present arrangement has not been respected;

5.1.7 carry out the airworthiness review of the aircraft when necessary and fill the airworthiness review certificate or the recommendation to the GCAA;

5.1.8 carry out all occurrence reporting mandated by applicable regulations;

5.1.9 inform the GCAA whenever the present arrangement is denounced by either party.
5.2 Obligations of the owner:

5.2.1 have a general understanding of the approved maintenance programme;

5.2.2 have a general understanding of CAR M;

5.2.3 present the aircraft to the approved maintenance organisation agreed with the approved organisation at the due time designated by the approved organisation’s request;

5.2.4 not modify the aircraft without first consulting the approved organisation;

5.2.5 inform the approved organisation of all maintenance exceptionally carried out without the knowledge and control of the approved organisation;

5.2.6 report to the approved organisation through the logbook all defects found during operations;

5.2.7 inform the GCAA whenever the present arrangement is denounced by either party;

5.2.8 inform the GCAA and the approved organisation whenever the aircraft is sold;

5.2.9 carry out all occurrence reporting mandated by applicable regulations.
APPENDIX II - Authorised Release Certificate – AW form 1

<table>
<thead>
<tr>
<th>1. General Civil Aviation Authority United Arab Emirates</th>
<th>2. AUTHORISED RELEASE CERTIFICATE AW Form 1</th>
<th>3. Form Tracking Number:</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Organisation Name and Address:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Work Order/Contract/Invoice:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------------------------------------------------</td>
<td>--------------------------------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>12. Remarks:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

13a. Certifies that the items identified above were manufactured in conformity to:
- [ ] Approved design data and are in condition for safe operation
- [ ] Non-approved design data specified in block 12

14a. [ ] CAR 145.50 Release to Service
[ ] Other regulation, specified in block 12

14b. Authorised Signature


13b. Authorised Signature

13c. Approval/Authorisation Number

13d. Name

13e. Date (dd mmm yyyy)

14d. Name

14e. Date (dd mmm yyyy)

USER/INSTALLER RESPONSIBILITIES

This certificate does not automatically constitute authority to install the item(s).

Where the user/installer performs work in accordance with regulations of an Airworthiness Authority different than the Airworthiness Authority specified in block 1, it is essential that the user/installer ensures their Airworthiness Authority accepts items from the Airworthiness Authority specified in block 1.

Statements in block(s) 13a and 14a do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations of the user/installer before the aircraft may be flown.
AUTHORISED RELEASE CERTIFICATE – AW FORM 1

These instructions relate only to the use of the AW Form 1 for maintenance purposes.

1. PURPOSE AND USE

The primary purpose of the Certificate is to declare the airworthiness of maintenance work undertaken on products, parts and appliances (hereafter referred to as ‘item(s)’).

Correlation must be established between the Certificate and the item(s). The originator must retain the Certificate in the form that allows verification of the original data.

The Certificate is acceptable to many airworthiness authorities, but may be dependent on bilateral agreements and/or the policy of the airworthiness authority. The ‘approved design data’ mentioned in this Certificate then means approved by the airworthiness authority of the importing country.

The Certificate is not a delivery or shipping note.

Aircraft are not to be released using the Certificate.

The Certificate does not constitute approval to install the item on a particular aircraft, engine, or propeller but helps the end user determine its airworthiness approval status.

A mixture of production released and maintenance released items is not permitted on the same Certificate.

2. GENERAL FORMAT

The Certificate must comply with the format attached including block numbers and the location of each block. The size of each block may however be varied to suit the individual application, but not to the extent that would make the Certificate unrecognisable.

The Certificate must be in ‘landscape’ format but the overall size may be significantly increased or decreased so long as the Certificate remains recognisable and legible. If in doubt consult the GCAA.

The User/Installer responsibility statement can be placed either on the reverse side, or on the front by reducing the depth of the Certificate.

All printing must be clear and legible to permit easy reading.

The Certificate may either be pre-printed or computer generated but in either case the printing of lines and characters must be clear and legible and in accordance with the defined format.

The Certificate should be in English.

The details to be entered on the Certificate may be either machine/computer printed or hand-written using block letters and must permit easy reading.

Limit the use of abbreviations to a minimum, to aid clarity.
The space remaining on the reverse side of the Certificate may be used by the originator for any additional information but must not include any certification statement. Any use of the reverse side of the Certificate must be referenced in the appropriate block on the front side of the Certificate.

3. **COPIES**

There is no restriction in the number of copies of the Certificate sent to the customer or retained by the originator.

4. **ERROR(S) ON A CERTIFICATE**

If an end-user finds an error(s) on a Certificate, he must identify it/them in writing to the originator. The originator may issue a new Certificate only if they can verify and correct the error(s).

The new Certificate must have a new tracking number, signature and date.

The request for a new Certificate may be honoured without re-verification of the item(s) condition. The new Certificate is not a statement of current condition and should refer to the previous Certificate in block 12 by the following statement;

“This Certificate corrects the error(s) in block(s) [enter block(s) corrected] of the Certificate [enter original tracking number] dated [enter original issuance date] and does not cover conformity/condition/release to service”.

Both Certificates should be retained according to the retention period associated with the first.

**COMPLETION OF THE RELEASE CERTIFICATE BY THE ORIGINATOR**

Except as otherwise stated, there must be an entry in all blocks to make the document a valid certificate.

**Block 1 [Pre-Printed] “General Civil Aviation Authority, United Arab Emirates”**

**Block 2 [Pre-printed]**

“AUTHORISED RELEASE CERTIFICATE”

AW FORM 1.”

**Block 3 Form Tracking Number**

Enter the unique number established by the numbering system/procedure of the organisation identified in block 4; this may include alpha/numeric characters.

**Block 4 Organisation Name and Address**

Enter the full name and address of the maintenance organisation releasing the item(s) covered by this Certificate. Logos, etc., of the organisation are permitted if they can be contained within the block.
Block 5 Work Order/Contract/Invoice

To facilitate customer traceability of the item(s), enter the work order number, contract number, invoice number, or similar reference number.

Block 6 Item

Enter line item numbers when there is more than one line item. This block permits easy cross-referencing to the Remarks block 12.

Block 7 Description

Enter the name or description of the item. Preference should be given to the term used in the instructions for continued airworthiness or maintenance data (e.g. Illustrated Parts Catalogue, Aircraft Maintenance Manual, Service Bulletin, Component Maintenance manual).

Block 8 Part Number

Enter the part number as it appears on the item or tag/packaging. In case of an engine or propeller the type designation may be used.

Block 9 Quantity

State the quantity of items.

Block 10 Serial Number

If the item is required by regulation to be identified with a serial number, enter it here. Additionally, any other serial number not required by regulation may also be entered. If there is no serial number identified on the item, enter “N/A”.

Block 11 Status/Work

The following table describes the permissible entries for Block 11. Enter only one of these terms – where more than one may be applicable, use the one that is most accurately describes the majority of the work performed and/or status of the article.

<table>
<thead>
<tr>
<th>Entry</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overhauled</td>
<td>Means a process that ensures the item is in complete conformity with the applicable service tolerance specified in the type certificate holder’s or equipment manufacturer’s instructions for continued airworthiness or in the data which is approved or accepted by the GCAA. The item will be at least disassembled, cleaned, inspected, repaired as necessary, reassembled and tested in accordance with the above specified data.</td>
</tr>
<tr>
<td>Repaired</td>
<td>Rectification of defect(s) using an applicable standard*</td>
</tr>
<tr>
<td>Inspected/Tested</td>
<td>Examination, measurement, etc. in accordance with an applicable standard* (e.g. by visual inspection, functional testing, bench testing and operational checks). The results shall be described or referenced in Block 12</td>
</tr>
<tr>
<td>Modified</td>
<td>Alteration of an item to conform to an applicable standard*</td>
</tr>
</tbody>
</table>
* Applicable Standard means a manufacturing/design/maintenance/quality standard, method, technique, practice approved or acceptable by the GCAA. The Applicable Standards shall be described in Block 12.

**Block 12 Remarks**

State any information in this block, either directly or by reference to supporting documentation, necessary for the user or installer to determine the airworthiness of the item in relation of the works being certified. If necessary a separate sheet may be used and referenced from the main certificate. Each statement must be clearly identified as to which item in Block 6 it relates. If there is no statement, state ‘None’.

Examples of statement in Block 12:

- Maintenance data used, including the revision status.
- Compliance with airworthiness directives or service bulletins.
- Repairs carried out.
- Modifications carried out.
- Replacement parts installed.
- Life limited parts status,
- Deviations from the customer work order.
- Information needed to support shipment with shortages or re-assembly after delivery.
- For maintenance organisations approved in accordance with Section A, Subpart F of this Chapter (CAR M), the component certificate of release to service statement referred to in point M.613:
  “Certifies that, unless otherwise specified in this block, the work identified in block 11 and described in this block was accomplished in accordance to the requirements of Section A, Subpart F of CAR M and in respect to that work the item is considered ready for release to service. THIS IS NOT A RELEASE UNDER Chapter III (CAR 145)”

If printing the data from an electronic AW Form 1 any data not appropriate in other blocks should be entered in this block.

**Block 13a – 13e**

General requirements for Blocks 13a – 13e:

Not used for maintenance release. Shade, darken, or otherwise mark to preclude inadvertent or unauthorised used.

**Block 14a**

Mark the box indicating which regulations apply to the completed work. If the other box “other regulation specified in block 12” is marked, then the regulations of the other airworthiness authority(ies) must be identified in block 12. At least one box must be marked, or both boxes must be marked, as appropriate.

For all maintenance carried out by maintenance organisations approved in accordance with Section A, Subpart F of this Chapter (CAR M), the box ‘other regulation specified in block 12’ shall be ticked and the certificate of release to service statement made in block 12. In that case, the certification statement ‘unless otherwise specified in this block’ is intended to address the following cases;
(a) Where the maintenance could not be completed.

(b) Where the maintenance deviated from the standard required by CAR M.

Block 14b Authorised Signature

The space shall be completed with the signature of the authorised person. Only persons specifically authorised under the rules and policies of the GCAA are permitted to sign this block. To aid recognition, a unique number identifying the authorised person may be added.

Block 14c Certificate/Approval Number

Enter the Certificate/Approval number/reference. The number or reference is issued by the GCAA.

Block 14d Name

Enter the name of the person signing Block 14b in a legible form

Block 14e Date (dd/mmm/yyyy)

Enter the date on which block 14b is signed. The date must be in the format dd/mmm/yyyy (dd = 2 digit day, mmm = first 3 letter of the month, yyyy = 4 digit year).

User/Installer Responsibilities

Place the following statement on the Certificate to notify end users that they are not relieved of their responsibilities concerning installation and use of any item accompanied by the form:

“THIS CERTIFICATE DOES NOT AUTOMATICALLY CONSTITUTE AUTHORITY TO INSTALL.

WHERE THE USER/INSTALLER PERFORMS WORK IN ACCORDANCE WITH REGULATIONS OF AN AIRWORTHINESS AUTHORITY DIFFERENT THAN THE AIRWORTHINESS AUTHORITY SPECIFIED IN BLOCK 1, IT IS ESSENTIAL THAT THE USER/INSTALLER ENSURES THAT HIS/HER AIRWORTHINESS AUTHORITY ACCEPTS ITEMS FROM THE AIRWORTHINESS AUTHORITY SPECIFIED IN BLOCK 1.

STATEMENTS IN BLOCKS 13A AND 14A DO NOT CONSTITUTE INSTALLATION CERTIFICATION. IN ALL CASES AIRCRAFT MAINTENANCE RECORDS MUST CONTAIN AN INSTALLATION CERTIFICATION ISSUED IN ACCORDANCE WITH THE GCAA REGULATIONS BY THE USER/INSTALLER BEFORE THE AIRCRAFT MAY BE FLOWN.”
APPENDIX III

Airworthiness Review Certificate – GCAA
Form No.: AWF-ARC-15a
Note: Form not included, form can be downloaded from GCAA website

Airworthiness Review Certificate - CAMO
Form No.: AWF-ARC-15b
Note: Form not included, form can be downloaded from GCAA website
APPENDIX IV – Class And Ratings System To Be Used For The Approval Of Maintenance Organisations Referred To In Section A, Subpart F Of This CAR M

1. Except as stated otherwise for the smallest organisation in Table 1 in paragraph 12, Table 2 outlines the full extent of approval possible under Section A, Subpart F of this CAR M. An organisation must be granted an approval ranging from a single class and rating with limitations to all classes and ratings with limitations.

2. In addition to Table 2 the approved maintenance organisation is required by CAR M.604 to indicate scope of work in the maintenance organisation manual. See also paragraph 11.

3. Within the approval class(es) and rating(s) granted by the GCAA, the scope of work specified in the maintenance organisation manual defines the exact limits of approval. It is therefore essential that the approval class(es) and rating(s) and the organisation's scope of work are compatible.

4. A category A class rating means that the approved maintenance organisation may carry out maintenance on the aircraft and any component (including engines and propellers), in accordance with aircraft maintenance data or, if agreed by the GCAA, in accordance with component maintenance data, only whilst such components are fitted to the aircraft. In addition, an A-rated approved maintenance organisation may temporarily remove a component for maintenance, in order to improve access to that component, when such removal is expressly permitted by the aircraft maintenance manual to improve access for maintenance, except when such removal generates the need for additional maintenance not eligible for the provisions of this paragraph. This will be subject to a control procedure in the maintenance organisation manual. The limitation section will specify the scope of such maintenance thereby indicating the extent of approval.

5. A category B class rating means that the approved maintenance organisation may carry out maintenance on the uninstalled engine/APU ('Auxiliary Power Unit') and engine/APU components, in accordance with engine and/or APU maintenance data or, if agreed by the GCAA, in accordance with component maintenance data, only whilst such components are fitted to the engine/APU. In addition, a B Rated approved maintenance organisations may temporarily remove a component for maintenance, in order to improve access to that component, when such removal is expressly permitted by the engine/APU manual to improve access for maintenance except when such removal generates the need for additional maintenance not eligible for the provisions of this paragraph. The limitation section will specify the scope of such maintenance thereby indicating the extent of approval. A maintenance organisation approved with a category B class rating may also carry out maintenance on an installed component during ‘base’ and ‘line’ maintenance subject to a control procedure in the maintenance organisation manual to be approved by the GCAA. The maintenance organisation manual scope of work shall reflect such activity where permitted by the GCAA.

6. A category C class rating means that the approved maintenance organisation may carry out maintenance on uninstalled components (excluding engines and APUs) intended for fitment to the aircraft or engine/APU. The limitation section will specify the scope of such maintenance thereby indicating the extent of approval. A maintenance organisation approved with a category C class rating may also carry out maintenance on an installed component during base
and line maintenance or at an engine/APU maintenance facility subject to a control procedure in the maintenance organisation manual to be approved by the GCAA. The maintenance organisation manual scope of work shall reflect such activity where permitted by the GCAA.

7. A category D class rating is a self-contained class rating not necessarily related to a specific aircraft, engine or other component. The D1 — Non-Destructive Testing (NDT) rating is only necessary for an approved maintenance organisation that carries out NDT as a particular task for another organisation. An approved maintenance organisation with a class rating in A, B or C category may carry out NDT on products it is maintaining subject to the maintenance organisation manual containing NDT procedures, without the need for a D1 class rating.

8. Reserved

9. The ‘limitation’ section is intended to give the GCAA maximum flexibility to customise the approval to a particular organisation. Table 2 specifies the types of limitation possible. Whilst maintenance is listed last in each class rating it is acceptable to stress the maintenance task rather than the aircraft or engine type or manufacturer, if this is more appropriate to the organisation (an example could be avionic systems installations and maintenance). Such mention in the limitation section indicates that the maintenance organisation is approved to carry out maintenance up to and including this particular type/task.

10. Table 2 makes reference to series, type and group in the limitation section of class A and B. Series means a specific type series such as Cessna 150 or Cessna 172 or Beech 55 series (with the engine type fitted) or continental O-200 series etc. Type means a specific type or model such as Cessna 172RG type etc. Any number of series or types may be quoted. Group means for example “Cessna Single Piston-Engined” aircraft or “Lycoming Non-Supercharged Piston Engines” etc.

11. When a lengthy capability list is used which could be subject to frequent amendment, then such amendment may be in accordance with the indirect approval procedure referred to in CAR M.604(c), when acceptable to the GCAA and included in the maintenance organisation manual. The procedure shall address the issues of who is responsible for capability list amendment control and the actions that need to be taken for amendment. Such actions include ensuring compliance with Section A, Subpart F of this CAR M for products or services added to the list.

12. A maintenance organisation which employs only one person to both plan and carry out all maintenance can only hold a limited scope of approval rating. The maximum permissible limits are:
<table>
<thead>
<tr>
<th>CLASS</th>
<th>RATING</th>
<th>LIMITATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIRCRAFT</td>
<td>A2 AEROPLANES</td>
<td>PISTON ENGINE 5700 KG AND BELOW</td>
</tr>
<tr>
<td>AIRCRAFT</td>
<td>A3 HELICOPTERS</td>
<td>SINGLE PISTON ENGINE 3175 KG AND BELOW</td>
</tr>
<tr>
<td>AIRCRAFT</td>
<td>A4 AIRCRAFT OTHER THAN A1, A2 AND A3</td>
<td>NO LIMITATION</td>
</tr>
<tr>
<td>ENGINES</td>
<td>B2 PISTON</td>
<td>LESS THAN 450 HP</td>
</tr>
<tr>
<td>COMPONENTS</td>
<td>C1 TO C22</td>
<td>AS PER CAPABILITY LIST</td>
</tr>
<tr>
<td>SPECIALISED</td>
<td>D1 NDT</td>
<td>NDT METHODS(S) TO BE SPECIFIED</td>
</tr>
</tbody>
</table>

It should be noted that such an organisation may be further limited by the GCAA in the scope of approval dependent upon the capability of the particular organisation.
## TABLE 2

<table>
<thead>
<tr>
<th>CLASS</th>
<th>RATING</th>
<th>LIMITATION</th>
<th>BASE</th>
<th>LINE</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIRCRAFT</td>
<td>A2 Aeroplanes/ 5700 kg and below</td>
<td>Will state aeroplane/manufacturer or group or series or type and/or the maintenance tasks(s)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>A3 helicopters/ single engine</td>
<td>Will state helicopter manufacturer or group or series or type and/or the maintenance tasks(s)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>A4 Aircraft other than A1, A2 and A3</td>
<td>Will state aircraft series or type and/or the maintenance task(s)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGINES</td>
<td>B2 Piston</td>
<td>Will state engine manufacturer or group or series or type and/or the maintenance task(s)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B3 APU</td>
<td>Will state engine manufacturer or group or series or type and/or the maintenance task(s)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMPONENTS</td>
<td>C1 Air Cond &amp; Press</td>
<td>Will state aircraft type or aircraft manufacturer or component manufacturer or the particular component and/or cross refer to a capability list in the exposition and/or maintenance task(s)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OTHER THAN</td>
<td>C2 Auto Flight</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMPLETE</td>
<td>C3 Comms &amp; Nav</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGINES OR</td>
<td>C4 Doors – Hatches</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>APUs</td>
<td>C5 Electrical Power &amp; Lights</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>C6 Equipment</td>
<td></td>
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<tr>
<td></td>
<td>C7 Engine – APU</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>C8 Flight Controls</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>C9 Fuel – Airframe</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>C10 Helicopter – Rotors</td>
<td></td>
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<tr>
<td></td>
<td>C11 Helicopter – trans</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>C12 Hydraulic Power</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>C13 Indicating – Recording System</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>C14 Landing Gear</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>C15 Oxygen</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>C16 Propellers</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>C17 Pneumatic &amp; Vacuum</td>
<td></td>
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<tr>
<td></td>
<td>C18 Protection ice/rain/fire</td>
<td></td>
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<tr>
<td></td>
<td>C19 Windows</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>C20 Structural</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>C21 Water Ballast</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>C22 Propulsion Augmentation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPECIALISED</td>
<td>D1 Non Destructive Testing</td>
<td>Will state particular NDT Method(s)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SERVICES</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
APPENDIX V

Subpart F Maintenance Organisation Approval Certificate

Form No.: AWF-AMO-011
Note: Form not included, form can be downloaded from GCAA website
APPENDIX VI

CONTINUING AIRWORTHINESS MANAGEMENT ORGANISATION APPROVAL CERTIFICATE

Form No.: AWF-ARC-014

Note: Form not included, form can be downloaded from GCAA website
APPENDIX VII

Reserved
APPENDIX VIII

Reserved
SECTION B CAR M - ACCEPTABLE MEANS OF COMPLIANCE

AMC CAR M.201(e) Responsibilities
The limited contract for the development and approval of the aircraft maintenance programme should cover the responsibilities related to CAR M.302(d) and (g). This contract may also entitle the CAR M. Subpart G organisation to use the indirect approval procedure described in CAR M.302(c).

AMC CAR M.201(h) Responsibilities
1. Reference to aircraft includes the components fitted to or intended to be fitted to the aircraft.
2. The performance of ground de-icing and anti-icing activities does not require a maintenance organisation approval. Nevertheless, inspections required to detect, and when necessary eliminate de-icing and/or anti-icing fluid residues are considered maintenance. Such inspections may only be carried out by suitably authorised personnel.
3. The requirement means that the operator is responsible for determining what maintenance is required, when it has to be performed and by whom and to what standard, in order to ensure the continued airworthiness of the aircraft being operated.
4. An operator should therefore have adequate knowledge of the design status (type specification, customer options, airworthiness directives (AD), airworthiness limitations contained in CS25 Book 1, Appendix H, paragraph H25.1, fuel tank system airworthiness limitations including Critical Design Configuration Control Limitations (CDCCL), modifications, major repairs, operational equipment) and required and performed maintenance. The status of aircraft design and maintenance should be adequately documented to support the performance of the quality system.
5. An operator should establish adequate co-ordination between flight operations and maintenance to ensure that both will receive all information on the condition of the aircraft necessary to enable both to perform their tasks.
6. The requirement does not mean that an operator himself performs the maintenance (this is to be done by a maintenance organisation approved under CAR 145) but that the operator carries the responsibility for the airworthy condition of aircraft it operates and thus should be satisfied before the intended flight that all required maintenance has been properly carried out.
7. When an operator is not appropriately approved in accordance with CAR 145, the operator should provide a clear work order to the maintenance contractor. The fact that an operator has contracted a maintenance organisation approved under CAR 145 should not prevent it from checking at the maintenance facilities on any aspect of the contracted work if he wishes to do so to satisfy his responsibility for the airworthiness of the aircraft.

AMC CAR M.201(h)1-Responsibilities (see Appendices to CAR M - Appendix II to CAR M.201(h))
1. An operator only needs to be approved for the management of the continuing airworthiness of the aircraft listed on its AOC. The approval to carry out airworthiness reviews is optional.
2. This approval does not prevent the operator subcontracting certain continuing airworthiness management tasks to competent persons or organisations. This activity is considered as an integral element of the operator’s CAR M. Subpart G approval. The regulatory monitoring is exercised through the operator’s CAR M. Subpart G. approval. The contracts should be acceptable to the GCAA.

3. The accomplishment of continuing airworthiness activities forms an important part of the operator’s responsibility with the operator remaining accountable for satisfactory completion irrespective of any contract that may be established.

4. CAR M does not provide for organisations to be independently approved to perform continuing airworthiness management tasks on behalf of commercial air transport operators. The approval of such activity is vested in the operator’s air operator’s certificate (AOC). The sub-contracted organisation is considered to perform the continuing airworthiness management tasks as an integral part of the operator’s continuing airworthiness management system, irrespective of any other approval held by the subcontractor including a CAR M. Subpart G approval.

5. The operator is ultimately responsible and therefore accountable for the airworthiness of its aircraft. To exercise this responsibility the operator should be satisfied that the actions taken by sub-contracted organisations meet the standards required by CAR M. Subpart G. The operator’s management of such activities should therefore be accomplished

(a) by active control through direct involvement and/or
(b) by endorsing the recommendations made by the sub-contracted organisation.

6. In order to retain ultimate responsibility the operator should limit sub-contracted tasks to the activities specified below:

(a) airworthiness directive analysis and planning
(b) service bulletin analysis
(c) planning of maintenance
(d) reliability monitoring, engine health monitoring
(e) maintenance programme development and amendments
(f) any other activities which do not limit the operators responsibilities as agreed by the GCAA.

7. The operator’s management controls associated with sub-contracted continuing airworthiness management tasks should be reflected in the associated written contract and be in accordance with the operator’s policy and procedures defined in his continuing airworthiness management exposition. When such tasks are sub-contracted the operator’s continuing airworthiness management system is considered to be extended to the sub-contracted organisation.

8. With the exception of engines and auxiliary power units contracts would normally be limited to one organisation per aircraft type for any combination of the activities described in Appendix 2. Where arrangements are made with more than one organisation the operator should demonstrate adequate co-ordination controls are in place and that the individual responsibilities are clearly defined in related contracts.

9. Contracts should not authorise the sub-contracted organisation to sub-contract to other organisations elements of the continuing airworthiness management tasks.
10. The operator should ensure that any findings arising from the GCAA monitoring of the sub-contracted continuing airworthiness management tasks will be closed to the satisfaction of the GCAA. This provision should be included in the contract.

11. The sub-contracted organisation should agree to notify the respective operators of any changes affecting the contracts as soon as practical. The operator should then inform the GCAA. Failure to do so may invalidate the GCAA acceptance of the contract.

12. Appendix II provides information on the sub-contracting of continuing airworthiness management tasks.

13. The operator should only sub contract to approved organisations.

**AMC CAR M.201 (h) 2- Responsibilities**

1. The requirement is intended to provide for the possibility of the following three alternative options:

   1.1 an operator to be approved in accordance with CAR 145 to carry out all maintenance of the aircraft and components;

   1.2 an operator to be approved in accordance with CAR 145 to carry out some of the maintenance of the aircraft and components. This, at minimum, could be limited line maintenance but may be considerably more but still short of option (a);

   1.3 An operator not approved in accordance with CAR 145 to carry out any maintenance.

2. An operator or prospective operator may apply for any one of these options but it will be for the GCAA to determine which option may be accepted in each particular case.

   2.1 To make this determination the GCAA will apply the primary criteria of relevant operator experience if carrying out some or all maintenance on comparable aircraft. Therefore where an operator applies for option (a) – all maintenance – the GCAA will need to be satisfied that the operator has sufficient experience of carrying out all maintenance on a comparable type. For example, assuming that the experience is judged satisfactory, then it is reasonable from the maintenance viewpoint to add a different wide bodied aircraft to an existing wide bodied fleet. If the experience is not satisfactory or too limited the GCAA may choose either to require more experienced management and/or more experienced release to service staff or may refuse to accept the new wide bodied aircraft if extra experienced staff cannot be found. Option (b) or (c) may be possible alternatives.

   2.2 Where an operator applies for option (b) – some maintenance – or the GCAA has been unable to accept an application for option (a) – then satisfactory experience is again the key but in this case the satisfactory experience is related to the reduced maintenance of this option. If the experience is not satisfactory or too limited the GCAA may choose to require more experienced staff or may refuse to accept the application if such staff cannot be found. Option (c) may be the possible alternative. Option (c) accepts that the operator either does not have satisfactory experience or has only limited experience of some maintenance.
2.3 The GCAA will require an operator to enter into a contract with an appropriately approved CAR 145 organisation except in those cases where the GCAA believes that it is possible to obtain sufficient satisfactorily experienced staff to provide the minimal maintenance support for option (b), in which case option (b) would apply.

2.4 In respect of this paragraph, ‘experience’ means staff who have proven evidence that they were directly involved with at least line maintenance of similar aircraft types for not less than 12 months. Such experience should be demonstrated to be satisfactory. An operator is required to have enough personnel meeting the requirement of CAR M.706 to manage the maintenance responsibility whichever option is used.

AMC CAR M.202 (a) Occurrence reporting

Accountable persons or organisations should ensure that the type certificate (TC) holder receives adequate reports of occurrences for that aircraft type, to enable it to issue appropriate service instructions and recommendations to all owners or operators.

Liaison with the TC holder is recommended to establish whether published or proposed service information will resolve the problem or to obtain a solution to a particular problem.

An approved continuing airworthiness management or maintenance organisation should assign responsibility for co-ordinating action on airworthiness occurrences and for initiating any necessary further investigation and follow-up activity to a suitably qualified person with clearly defined authority and status.

In respect of maintenance, reporting a condition which endangers flight safety is normally limited to:

- serious cracks, permanent deformation, burning or serious corrosion of structure found during scheduled maintenance of the aircraft or component.
- failure of any emergency system during scheduled testing.

In any case, CAAP 22 should be consulted to determine if a particular case requires reporting to the GCAA.

AMC CAR M.202 (b) Occurrence reporting

The reports may be transmitted by any method i.e. electronically, by post or by facsimile.

Each report should contain at least the following information as per the ROSI form and in compliance with CAAP 22:

- reporter or organisations name and approval reference if applicable,
- information necessary to identify the subject aircraft and or component,
- date and time relative to any life or overhaul limitation in terms of flying hours/cycles/landings etc. as appropriate,
- details of the occurrence.
AMC CAR M.301 – 1 – Continuing airworthiness tasks

1. With regard to the pre-flight inspection it is intended to mean all of the actions necessary to ensure that the aircraft is fit to make the intended flight. These should typically include but are not necessarily limited to:
   (a) a walk-around type inspection of the aircraft and its emergency equipment for condition including, in particular, any obvious signs of wear, damage or leakage. In addition, the presence of all required equipment including emergency equipment should be established.
   (b) an inspection of the aircraft continuing airworthiness record system or the operators technical log as applicable to ensure that the intended flight is not adversely affected by any outstanding deferred defects and that no required maintenance action shown in the maintenance statement is overdue or will become due during the flight.
   (c) a control that consumable fluids, gases etc. uplifted prior to flight are of the correct specification, free from contamination, and correctly recorded.
   (d) a control that all doors are securely fastened.
   (e) a control that control surface and landing gear locks, pitot/static covers, restraint devices and engine/aperture blanks have been removed.
   (f) a control that all the aircraft’s external surfaces and engines are free from ice, snow, sand, dust etc. and an assessment to confirm that, as the result of meteorological conditions and de-icing/anti-icing fluids having been previously applied on it, there are no fluid residues that could endanger flight safety. Alternatively to this pre-flight assessment, when the type of aircraft and nature of operations allow for it, the buildup of residues may be controlled through scheduled maintenance inspections/cleanings identified in the approved maintenance programme.

2. Tasks such as oil and hydraulic fluid uplift and tyre inflation may be considered as part of the pre-flight inspection. The related pre-flight inspection instructions should address the procedures to determine where the necessary uplift or inflation results from an abnormal consumption and possibly requires additional maintenance action by the approved maintenance organisation or certifying staff as appropriate.

3. In the case of commercial air transport, an operator should publish guidance to maintenance and flight personnel and any other personnel performing pre-flight inspection tasks, as appropriate, defining responsibilities for these actions and, where tasks are contracted to other organisations, how their accomplishment is subject to the quality system of CAR M.712. It should be demonstrated to the GCAA that pre-flight inspection personnel have received appropriate training for the relevant pre-flight inspection tasks. The training standard for personnel performing the pre-flight inspection should be described in the operator’s continuing airworthiness management exposition.
AMC CAR M.301 - 2- Continuing airworthiness tasks

In the case of commercial air transport the operator should have a system to ensure that all defects affecting the safe operation of the aircraft are rectified within the limits prescribed by the approved minimum equipment list (MEL) or configuration deviation list (CDL) as appropriate. Also that such defect rectification cannot be postponed unless agreed by the operator and in accordance with a procedure approved by the GCAA.

In the case of commercial air transport or large aircraft, a system of assessment should be in operation to support the continuing airworthiness of an aircraft and to provide a continuous analysis of the effectiveness of the CAR M. Subpart G approved continuing airworthiness management organisation’s defect control system in use.

The system should provide for:

(a) significant incidents and defects: monitor incidents and defects that have occurred in flight and defects found during maintenance and overhaul, highlighting any that appear significant in their own right.

(b) repetitive incidents and defects: monitor on a continuous basis defects occurring in flight and defects found during maintenance and overhaul, highlighting any that are repetitive.

(c) deferred and carried forward defects: Monitor on a continuous basis deferred and carried forward defects. Deferred defects are defined as those defects reported in operational service which are deferred for later rectification. Carried forward defects are defined as those defects arising during maintenance which are carried forward for rectification at a later maintenance input.

(d) unscheduled removals and system performance: analyse unscheduled component removals and the performance of aircraft systems for use as part of the maintenance programme efficiency.

When deferring or carrying forward a defect the cumulative effect of a number of deferred or carried forward defects occurring on the same aircraft and any restrictions contained in the MEL should be considered. Whenever possible, deferred defects should be made known to the pilot/flight crew prior to their arrival at the aircraft.

AMC CAR M.301 - 3- Continuing airworthiness tasks

The owner or the CAR M. Subpart G approved continuing airworthiness management organisation as applicable should have a system to ensure that all aircraft maintenance checks are performed within the limits prescribed by the approved aircraft maintenance programme and that, whenever a maintenance check cannot be performed within the required time limit, its postponement is allowed in accordance with a procedure agreed by the GCAA.

AMC CAR M.301 - 4 - Continuing airworthiness tasks

The operator or the contracted CAR M. Subpart G approved organisation as applicable should have a system to analyse the effectiveness of the maintenance programme, with regard to spares, established defects, malfunctions and damage, and to amend the maintenance programme accordingly.
AMC CAR M.301 - 5- Continuing Airworthiness Tasks

Operational directives with a continuing airworthiness impact include operating rules such as extended twin-engine operations (ETOPS)/long range operations (LROPS), reduced vertical separation minima (RVSM), MNPS, all weather operations (AWOPS), RNAV, etc.

Any other continued airworthiness requirement made mandatory by the GCAA includes TC related requirements such as: certification life limited parts, airworthiness limitations contained in CS25 Book 1, Appendix H, paragraph H25.1, fuel tank system airworthiness limitations including Critical Design Configuration Control Limitations (CDCCL), etc.

AMC CAR M.301 - 7- Continuing airworthiness tasks

An operator or a contracted CAR M. Subpart G approved organisation as applicable should establish and work to a policy, which assesses non-mandatory information related to the airworthiness of the aircraft. Non mandatory information such as service bulletins, service letters and other information is that produced for the aircraft and its components by an approved design organisation, the manufacturer, the Authority responsible for the type design.

AMC CAR M.302 Aircraft Maintenance Programme (see Appendices to CAR M - Appendix I to AMC CAR M.302)

1. The term “maintenance programme” is intended to include scheduled maintenance tasks the associated procedures and standard maintenance practises. The term “maintenance schedule” is intended to embrace the scheduled maintenance tasks alone.

2. The aircraft should only be maintained to one approved maintenance programme at a given point in time. Where an owner or operator wishes to change from one approved programme to other, a transfer check or inspection may need to be performed in order to implement the change.

3. The maintenance programme details should be reviewed at least annually. As a minimum revisions of documents affecting the programme basis need to be considered by the owner or operator for inclusion in the maintenance programme during the annual review. Applicable mandatory requirements for compliance with CAR 21 should be incorporated into the owner or operator’s maintenance programme as soon as possible.

4. The aircraft maintenance programme should contain a preface which will define the maintenance programme contents, the inspection standards to be applied, permitted variations to task frequencies and where applicable, any procedure to manage the evolution of established check or inspection intervals.

Appendix 1 to AMC CAR M.302 provides detailed information on the contents of an approved aircraft maintenance programme.

5. The approved aircraft maintenance programme should reflect applicable mandatory regulatory requirements addressed in documents issued by the TC holder to comply with CAR 21.61

6. Repetitive maintenance tasks derived from modifications and repairs should be incorporated into the approved maintenance programme.
AMC CAR M.302(a) Aircraft Maintenance Programme

A maintenance programme may indicate that it applies to several aircraft registrations as long as the maintenance programme clearly identifies the effectivity of the tasks and procedures that are not applicable to all of the listed registrations.

AMC CAR M.302(d) Aircraft Maintenance Programme Compliance

1. An owner or operator’s maintenance programme should normally be based upon the maintenance review board (MRB) report where applicable, the maintenance planning document (MPD), the relevant chapters of the maintenance manual or any other maintenance data containing information on scheduling. Furthermore, an owner or operator’s maintenance programme should also take into account any maintenance data containing information on scheduling for components.

2. Instructions issued by the GCAA can encompass all types of instructions from a specific task for a particular aircraft to complete recommended maintenance schedules for certain aircraft types that can be used by the owner/operator directly. These instructions may be issued by the GCAA in the following cases:
   - in the absence of specific recommendations of the Type Certificate Holder.
   - to provide alternate instructions to those described in the subparagraph 1 above, with the objective of providing flexibility to the operator.

3. Where an aircraft type has been subjected to the MRB report process, an operator should normally develop the initial operator’s aircraft maintenance programme based upon the MRB report.

4. Where an aircraft is maintained in accordance with an aircraft maintenance programme based upon the MRB report process, any associated programme for the continuous surveillance of the reliability, or health monitoring of the aircraft should be considered as part of the aircraft maintenance programme.

5. Aircraft maintenance programmes for aircraft types subjected to the MRB report process should contain identification cross reference to the MRB report tasks such that it is always possible to relate such tasks to the current approved aircraft maintenance programme. This does not prevent the approved aircraft maintenance programme from being developed in the light of service experience to beyond the MRB report recommendations but will show the relationship to such recommendations.

6. Some approved aircraft maintenance programmes, not developed from the MRB process, utilise reliability programmes. Such reliability programmes should be considered as a part of the approved maintenance programme.

7. Alternate and/or additional instructions to those defined in paragraphs CAR M.302(d)(1) and (2), proposed by the owner or the operator, may include but are not limited to the following:
   - Escalation of the interval for certain tasks based on reliability data or other supporting information. Appendix I recommends that the maintenance programme contains the corresponding escalation procedures. The escalation of these tasks is directly approved by the GCAA, except in the case of ALIs (Airworthiness Limitations).
- More restrictive intervals than those proposed by the TC holder as a result of the reliability data or because of a more stringent operational environment.
- Additional tasks at the discretion of the operator.

**AMC CAR M.302(f) Aircraft Maintenance Programme - Reliability Programmes**

1. Reliability programmes should be developed for aircraft maintenance programmes based upon maintenance steering group (MSG) logic or those that include condition monitored components or that do not contain overhaul time periods for all significant system components.

2. Reliability programmes need not be developed for aircraft not considered as large aircraft or that contain overhaul time periods for all significant aircraft system components.

3. The purpose of a reliability programme is to ensure that the aircraft maintenance programme tasks are effective and their periodicity is adequate.

4. The reliability programme may result in the escalation or deletion of a maintenance task, as well as the de-escalation or addition of a maintenance task.

5. A reliability programme provides an appropriate means of monitoring the effectiveness of the maintenance programme.

6. It is the responsibility of the operator to report any exceedance in the alert level of the removal/failure rates of components as a result of the reliability monitoring to the authority

7. Appendix 1 to AMC CAR M.302 gives further guidance.

**AMC CAR M.303 Applicable Airworthiness Directives**

The applicable airworthiness directives are:

1. Airworthiness Directives issued by the GCAA.

2. Those issued by the issuing authority of the Type Certificate accepted by the GCAA.

3. For aircraft registered in the UAE prior to January 2006, those AD’s that are issued by the issuing authority of the Type Certificate.

4. For aircraft registered between 01 January 2006 and prior to entry into force of this regulation, those AD’s that are issued by the issuing authority of the Type Certificate based on which the UAE C of A was granted.

5. If an aircraft Type Certificate was formally validated in the UAE, the model will follow AD’s applicable to the foreign type certificate accepted by the GCAA. In case UAE C of A was issued to a model without formal type validation then the model will follow AD’s applicable to State of Design type certificate.
AMC CAR M.304 Data For Modifications And Repairs

A person or organisation repairing an aircraft or component should assess the damage against published approved repair data and the action to be taken if the damage is beyond the limits or outside the scope of such data. This could involve any one or more of the following options; repair by replacement of damaged parts, requesting technical support from the type certificate holder or from an organisation approved in accordance with CAR 21 and finally the GCAA’s approval of the particular repair data.

AMC CAR M.305 (d) Aircraft Continuing Airworthiness Record System

Information on times, dates, cycles etc. should give an overall picture on the state of maintenance of the aircraft and its components.

The current status of all service life-limited aircraft components should indicate the component life limitation, total number of hours, accumulated cycles or calendar time and the number of hours/cycles/time remaining before the required retirement time of the component is reached.

The current status of AD should identify the applicable AD including revision or amendment numbers. Where an AD is generally applicable to the aircraft or component type but is not applicable to the particular aircraft or component, then this should be identified. The AD status includes the date when the AD was accomplished, and where the AD is controlled by flight hours or flight cycles it should include the aircraft or engine or component total flight hours or cycles, as appropriate. For repetitive ADs, only the last application should be recorded in the AD status. The status should also specify which part of a multi-part directive has been accomplished and the method, where a choice is available in the AD.

The status of current modification and repairs means a list of embodied modification and repairs together with the substantiating data supporting compliance with the airworthiness requirements. This can be in the form of a Supplemental Type Certificate (STC), SB, Structural Repair Manual (SRM) or similar approved document.

The substantiating data may include:
(a) compliance programme; and,
(b) master drawing or drawing list, production drawings, and installation instructions; and,
(c) engineering reports (static strength, fatigue, damage tolerance, fault analysis, etc.); and,
(d) ground and flight test programme and results; and,
(e) mass and flight test programme and results; and,
(f) maintenance and repair manual supplements; and,
(g) maintenance programme changes and instructions for continuing airworthiness; and,
(h) aircraft flight manual supplement.

Some gas turbine engines are assembled from modules and a true total time in service for a total engine is not kept. When owners and operators wish to take advantage of the modular design, then total time in service and maintenance records for each module is to be maintained. The continuing airworthiness records as specified are to be kept with the module and should show compliance with any mandatory requirements pertaining to that module.
AMC CAR M.305 (h) Aircraft Continuing Airworthiness Record System

When an owner/operator arranges for the relevant maintenance organisation to retain copies of the continuing airworthiness records on their behalf, the owner/operator will continue to be responsible for the retention of records. If they cease to be the owner/operator of the aircraft, they also remain responsible for the transferring the records to any other person who becomes the owner/operator of the aircraft.

Keeping continuing airworthiness records in a form acceptable to the GCAA normally means in paper form or on a computer database or a combination of both methods. Records stored in microfilm or optical disc form are also acceptable. All records should remain legible throughout the required retention period.

Paper systems should use robust material, which can withstand normal handling and filing.

Computer systems should have at least one backup system, which should be updated at least within 24 hours of any maintenance. Each terminal is required to contain programme safeguards against the ability of unauthorised personnel to alter the database.

Details of current modifications and repairs include the data supporting compliance with the airworthiness requirements. This can be in the form of a STC, SB, SRM or similar document.

Continuing airworthiness records should be stored in a safe way with regard to fire, flood, theft and alteration. Computer backup discs, tapes etc., should be stored in a different location from that containing the current working discs, tapes, etc. and in a safe environment. Reconstruction of lost or destroyed records can be done by reference to other records which reflect the time in service, research of records maintained by repair facilities and reference to records maintained by individual mechanics etc. When these things have been done and the record is still incomplete, the owner/operator may make a statement in the new record describing the loss and establishing the time in service based on the research and the best estimate of time in service. The reconstructed records should be submitted to the GCAA for acceptance.

NOTE: Additional maintenance may be required.

AMC CAR M.305 (h) 6 - Aircraft Continuing Airworthiness Record System

For the purpose of this paragraph, a “component vital to flight safety” means a component that includes certified life limited parts or is subject to airworthiness limitations or a major component such as, undercarriage or flight controls.

AMC CAR M.306 (a) Operator’s Technical Log System

For all aircraft (that have a C of A in force) the operator’s aircraft technical log is a system for recording defects and malfunctions during the aircraft operation and for recording details of all maintenance carried out on an aircraft between scheduled base maintenance visits. In addition, it is used for recording flight safety and maintenance information the operating crew need to know.

Cabin or galley defects and malfunctions that affect the safe operation of the aircraft or the safety of its occupants are regarded as forming part of the aircraft log book where recorded by another means.
The operator’s aircraft technical log system may range from a simple single section document to a complex system containing many sections but in all cases it should include the information specified for the example used here which happens to use a 5 section document/computer system:

**Section 1** should contain details of the registered name and address of the operator, the aircraft type and the complete international registration marks of the aircraft.

**Section 2** should contain details of when the next scheduled maintenance is due, including, if relevant any out of phase component changes due before the next maintenance check. In addition this section should contain the current certificate of release to service (CRS), for the complete aircraft, issued normally at the end of the last maintenance check.

NOTE: The flight crew do not need to receive such details if the next scheduled maintenance is controlled by other means acceptable to the GCAA.

**Section 3** should contain details of all information considered necessary to ensure continued flight safety. Such information includes:

1. the aircraft type and registration mark.
2. the date and place of take-off and landing.
3. the times at which the aircraft took off and landed.
4. the running total of flying hours, such that the hours to the next schedule maintenance can be determined. The flight crew does not need to receive such details if the next scheduled maintenance is controlled by other means acceptable to the GCAA.
5. details of any failure, defect or malfunction to the aircraft affecting airworthiness or safe operation of the aircraft including emergency systems, and any failure, defect or malfunctions in the cabin or galleys that affect the safe operation of the aircraft or the safety of its occupants that are known to the commander. Provision should be made for the commander to date and sign such entries, including, where appropriate, the nil defect state for continuity of the record. Provision should be made for a CRS following rectification of a defect or any deferred defect or maintenance check carried out. Such a certificate appearing on each page of this section should readily identify the defect(s) to which it relates or the particular maintenance check as appropriate.
6. the quantity of fuel and oil uplifted and the quantity of fuel available in each tank, or combination of tanks, at the beginning and end of each flight; provision to show, in the same units of quantity, both the amount of fuel planned to be uplifted and the amount of fuel actually uplifted; provision for the time when ground de-icing and/or anti-icing was started and the type of fluid applied, including mixture ratio fluid/water and any other information required by the operator's procedures in order to allow the assessment on whether inspections for and/or elimination of de-icing/anti-icing fluid residues that could endanger flight safety are required.
7. the pre-flight inspection signature.

In addition to the above it may be necessary to record the following supplementary information: The time spent in particular engine power ranges where use of such engine power affects the life of the engine or engine module. These are two examples thereof:

- the number of landings where landings affect the life of an aircraft or aircraft component.
• flight cycles or flight pressure cycles where such cycles affect the life of an aircraft or aircraft component.

NOTE 1: Where Section 3 is of the multi-sector ‘part removable’ type then such ‘part removable’ sections should contain all of the foregoing information where appropriate.

NOTE 2: Section 3 should be designed such that one copy of each page may remain on the aircraft and one other copy may be retained on the ground until completion of the flight to which it relates.

NOTE 3: Section 3 lay-out should be divided to show clearly what is required to be completed after flight and what is required to be completed in preparation for the next flight.

Section 4 should contain details of all deferred defects that affect or may affect the safe operation of the aircraft and should therefore be known to the aircraft commander. Each page of this section should be pre-printed with the operator’s name and page serial number and make provision for recording the following:
1. a cross reference for each deferred defect such that the original defect can be identified in the particular section 3 sector record page.
2. the original date of occurrence of the defect deferred.
3. brief details of the defect.
4. details of the eventual rectification carried out and its CRS or a clear cross-reference back to the document that contains details of the eventual rectification.

Section 5 should contain any necessary maintenance support information that the aircraft commander needs to know. Such information would include data on how to contact maintenance engineering if problems arise whilst operating the routes etc.

AMC CAR M.306 (b) Operator’s Technical Log System

The aircraft technical log system can be either a paper or computer system or any combination of both methods acceptable to the GCAA.

In case of a computer system, it should contain programme safeguards against the ability of unauthorised personnel to alter the database.

AMC CAR M.307 (a) Transfer Of Aircraft Continuing Airworthiness Records

Where an owner/operator terminates his operation, all retained continuing airworthiness records should be passed on to the new owner/operator or stored.

A “permanent transfer” does not generally include the dry lease-out of an aircraft when the duration of the lease agreement is less than 6 months. However the GCAA should be satisfied that all continuing airworthiness records necessary for the duration of the lease agreement are transferred to the lessee or made accessible to the CAR M.
AMC CAR M.401 (b) Maintenance Data

1. Except as specified in sub-paragraph 2, each person or organisation performing aircraft maintenance should have access to and use:
   (a) all maintenance related GCAA publications and associated AMC’s, together with the maintenance related guidance material,
   (b) all applicable maintenance requirements and notices such as GCAA standards and specifications that have not been superseded by a requirement, procedure or directive,
   (c) all applicable airworthiness directives,
   (d) the appropriate sections of the aircraft maintenance programme, aircraft maintenance manual, repair manual, supplementary structural inspection document, corrosion control document, service bulletins, service sheets modification leaflets, non-destructive inspection manual, parts catalogue, type certificate data sheets as required for the work undertaken and any other specific document issued by the type certificate or supplementary type certificate holder’s maintenance data, except that in the case of operator or customer provided maintenance data it is not necessary to hold such provided data when the work order is completed.

2. In addition to sub-paragraph 1, for components each organisation performing aircraft maintenance should hold and use the appropriate sections of the vendor maintenance and repair manual, service bulletins and service letters plus any document issued by the type certificate holder as maintenance data on whose product the component may be fitted when applicable, except that in the case of operator or customer provided maintenance data it is not necessary to hold such provided data when the work order is completed.

AMC CAR M.401(c) Maintenance data

1. Data being made available to personnel maintaining aircraft means that the data should be available in close proximity to the aircraft or component being maintained, for mechanics and certifying staff to perform maintenance.

2. Where computer systems are used, the number of computer terminals should be sufficient in relation to the size of the work programme to enable easy access, unless the computer system can produce paper copies. Where microfilm or microfiche readers/printers are used, a similar requirement is applicable.

3. Maintenance tasks should be transcribed onto the work cards or worksheets and subdivided into clear stages to ensure a record of the accomplishment of the maintenance task. Of particular importance is the need to differentiate and specify, when relevant, disassembly, accomplishment of task, reassembly and testing. In the case of a lengthy maintenance task involving a succession of personnel to complete such task, it may be necessary to use supplementary work cards or worksheets to indicate what was actually accomplished by each individual person. A worksheet or work card system should refer to particular maintenance tasks.
4. The workcard/worksheet system may take the form of, but is not limited to, the following:
   - a format where the mechanic writes the defect and the maintenance action taken together with information of the maintenance data used, including its revision status,
   - an aircraft log book that contains the reports of defects and the actions taken by authorised personnel together with information of the maintenance data used, including its revision status,
   - for maintenance checks, the checklist issued by the manufacturer (i.e., 100H checklist, Revision 5, Items 1 through 95)

5. Maintenance data should be kept up to date by:
   - subscribing to the applicable amendment scheme,
   - checking that all amendments are being received,
   - monitoring the amendment status of all data.

AMC CAR M.402 (a) Performance of maintenance

1. Reserved
2. Reserved
3. The general maintenance and inspection standards applied to individual maintenance tasks should meet the recommended standards and practices of the organisation responsible for the type design which are normally published in the maintenance manuals.

   In the absence of maintenance and inspection standards published by organisation responsible for the type design personnel should refer to the relevant aircraft airworthiness standards and procedures published or used as guidance by the GCAA. The maintenance standards used should contain methods, techniques and practices acceptable to the GCAA for the maintenance of aircraft and its components.

4. Independent inspections.
   4.1 The manufactures instructions for continued airworthiness should be followed when determining the need for an independent inspection.
   4.2 In the absence of maintenance and inspection standards published by organisation responsible for the type design, maintenance tasks that involve the assembly or any disturbance of a control system that, if errors occurred, could result in a failure, malfunction, or defect endangering the safe operation of the aircraft should be considered as flight safety sensitive maintenance tasks needing an independent inspection. A control system is an aircraft system by which the flight path, attitude, or propulsive force of the aircraft is changed, including the flight, engine and propeller controls, the related system controls and the associated operating mechanisms.
   4.3 Independent inspections should be carried out by at least two persons, to ensure correct assembly, locking and sense of operation. A technical record of the inspections should contain the signatures of both persons before the relevant CRS is issued.
4.4 When work is being done under the control of an approved maintenance organisation the organisation should have procedures to demonstrate that the signatories have been trained and have gained experience on the specific control systems being inspected.

4.5 Reserved

4.6 In summary the following maintenance tasks should primarily be considered when inspecting aircraft control systems that have been disturbed:

- installation, rigging and adjustment of flight controls.
- installation of aircraft engines, propellers and rotors.
- overhaul, calibration or rigging of components such as engines, propellers, transmissions and gearboxes.

Consideration should also be given to:

- previous experience of maintenance errors, depending on the consequences of the failure.
- information arising from an ‘occurrence reporting system’

4.7 When checking control systems that have undergone maintenance the person signing the maintenance release and the person performing the independent check should consider the following points independently:

- all those parts of the system that have actually been disconnected or disturbed should be inspected for correct assembly and locking.
- the system as a whole should be inspected for full and free movement over the complete range.
- cables should be tensioned correctly with adequate clearance at secondary stops.
- the operation of the control system as a whole should be observed to ensure that the controls are operating in the correct sense.
- if the control system is duplicated to provide redundancy, each system should be checked separately.
- If different control systems are interconnected so that they affect each other, all the interactions should be checked through the full range of the applicable controls.

AMC CAR M.402 (b) Performance of maintenance

When performing maintenance, personnel are required to use the tools, equipment and test apparatus necessary to ensure completion of work in accordance with accepted maintenance and inspection standards. Inspection, service or calibration on a regular basis should be in accordance with the equipment manufacturers' instructions. All tools requiring calibration should be traceable to an acceptable standard.

In this context officially recognised standard means those standards established or published by an official body whether having legal personality or not, which are widely recognised by the air transport sector as constituting good practice.
If the organisation responsible for the type design involved recommends special equipment or test apparatus, personnel should use the recommended equipment or apparatus or equivalent equipment accepted by the GCAA.

All work should be performed using materials of such quality and in a manner, that the condition of the aircraft or its components after maintenance will be at least equal to its original or modified condition (with regard to aerodynamic function, structural strength, resistance to vibration, deterioration and any other qualities affecting airworthiness).

AMC CAR M.402 (d) Performance of maintenance

The working environment should be appropriate for the maintenance task being performed such that the effectiveness of personnel is not impaired.

1. Temperature should be maintained such that personnel can perform the required tasks without undue discomfort.

2. Airborne contamination (e.g. dust, precipitation, paint particles, filings) should be kept to a minimum to ensure aircraft/components surfaces are not contaminated, if this is not possible all susceptible systems should be sealed until acceptable conditions are re-established.

3. Lighting should be adequate to ensure each inspection and maintenance task can be performed effectively.

4. Noise levels should not be allowed to rise to the level of distraction for inspection staff or if this is not possible inspection staff should be provided with personnel equipment to reduce excessive noise.

AMC CAR M.402 (e) Performance of maintenance

Facilities should be provided appropriate for all planned maintenance. This may require aircraft hangars that are both available and large enough for the planned maintenance.

Aircraft component workshops should be large enough to accommodate the components that are planned to be maintained.

Protection from inclement weather means the hangar or component workshop structures should be to a standard that prevents the ingress of rain, hail, ice, snow, wind and dust etc.

AMC CAR M.403 (b) Aircraft defects

An assessment of both the cause and any potentially hazardous effect of any defect or combination of defects that could affect flight safety should be made in order to initiate any necessary further investigation and analysis necessary to identify the root cause of the defect.
AMC CAR M.403 (d) Aircraft defects

All deferred defects should be made known to the pilot/flight crew, whenever possible, prior to their arrival at the aircraft.

Deferred defects should be transferred on to worksheets at the next appropriate maintenance check, and any deferred defect which is not rectified during the maintenance check, should be re-entered on to a new deferred defect record sheet. The original date of the defect should be retained.

The necessary components or parts needed for the rectification of defects should be made available or ordered on a priority basis, and fitted at the earliest opportunity.

AMC CAR M.501 (a) - Installation

1. To ensure a component is in a satisfactory condition, the person referred to under CAR M.801 or the approved maintenance organisation should perform checks and verifications.

2. Performance of above checks and verifications should take place before the component is installed on the aircraft.

3. The following list, though not exhaustive, contains typical checks to be performed:

   (a) verify the general condition of components and their packaging in relation to damages that could affect the integrity of the components;

   (b) verify that the shelf life of the component has not expired;

   (c) verify that items are received in the appropriate package in respect of the type of component: e.g. correct ATA 300 or electrostatic sensitive devices packaging, when necessary;

   (d) verify that component has all plugs and caps appropriately installed to prevent damage or internal contamination. Tape should not be used to cover electrical connections or fluid fittings/openings because adhesive residues can insulate electrical connections and contaminate hydraulic or fuel units.

4. The purpose of the AW Form 1 (see also CAR M Appendix II) is to release components after manufacture and to release maintenance work carried out on such components under the approval of the GCAA and to allow components removed from one aircraft/component to be fitted to another aircraft/component.

5. An equivalent document to an AW Form 1 may be:

   (a) a release document issued by an organisation under the terms of a bilateral agreement signed by the GCAA; or

   (b) an EASA Form 1 issued by an approved EASA Part 145 organisation; or

   (c) a JAA Form One issued prior to 28 November 2004; or
(d) a JAA Form One issued prior to 28 September 2005 by a production organisation approved by a competent authority in accordance with its national regulations

(e) FAA Form 8130-3; or

(f) Transport Canada Form 24-0078 or TCCA FORM ONE; or

(g) For new parts, an authorised release certificate issued by Type Certificate holder under Authority of the State of Design; or

(h) Any other equivalent certification acceptable to the GCAA.

Note: In the case of restoration of complete engines and engine modules, the work shall be carried out in accordance with CAR M subpart F or CAR 145 by an organisation approved by the GCAA. The restoration of all other components may be carried out by an organisation appropriately approved to issue a release to service on any of the above listed forms.

(i) Certificates of release to service and authorised release certificates issued before the date of entry into force of this Regulation CAR M by a maintenance organisation approved by the GCAA shall be deemed equivalent to those required under points CAR M.801 and CAR M.802 of CAR-M respectively.

6. Any item in storage without an AW FORM 1 or equivalent cannot be installed on aircraft registered in a UAE unless an AW FORM 1 is issued for such item by an appropriately approved maintenance organisation in accordance with AMC CAR M.613 (a) or AMC No 2 to 145.50(d).

AMC CAR M.501 (b) – Installation

1. The AW FORM 1 identifies the airworthiness and eligibility status of an aircraft component. Block 12 "Remarks" on the AW FORM 1 in some cases contains vital airworthiness related information (see also CAR M Appendix II) which may need appropriate and necessary actions.

2. The fitment of replacement components/material should only take place when the person referred to under CAR M.801 or the CAR M. Subpart F maintenance organisation is satisfied that such components/material meet required standards in respect of manufacture or maintenance, as appropriate.

3. The person referred to under CAR M.801 or the CAR M. Subpart F approved maintenance organisation should be satisfied that the component in question meets the approved data/standard, such as the required design and modification standards. This may be accomplished by reference to the TC holder or manufacturer's parts catalogue or other approved data (i.e. Service Bulletin). Care should also be exercised in ensuring compliance with applicable ADs and the status of any service life limited parts fitted to the aircraft component.
AMC CAR M.501(c) – Installation

1. Standard parts are:

   (a) parts manufactured in complete compliance with an established industry, the GCAA or other Government specification which includes design, manufacturing, test and acceptance criteria, and uniform identification requirements. The specification should include all information necessary to produce and verify conformity of the part. It should be published so that any party may manufacture the part. Examples of specifications are National Aerospace Standards (NAS), Army-Navy Aeronautical Standard (AN), Society of Automotive Engineers (SAE), SAE Sematec, Joint Electron Device Engineering Council, Joint Electron Tube Engineering Council, and American National Standards Institute (ANSI), EN Specifications etc...

   (b) Reserved

2. To designate a part as a standard part the TC holder may issue a standard parts manual accepted by the Authority of original TC holder or may make reference in the parts catalogue to a national/international specification (such as a standard diode/capacitor etc) not being an aviation only specification for the particular part.

3. Documentation accompanying standard parts should clearly relate to the particular parts and contain a conformity statement from both the manufacturing and supplier source. Some material is subject to special conditions such as storage condition or life limitation etc. and this should be included on the documentation and/or material packaging.

4. An AW FORM 1 or equivalent is not normally issued and therefore none should be expected.

AMC CAR M.501 (d) – Installation

1. Consumable material is any material which is only used once, such as lubricants, cements, compounds, paints, chemicals dyes and sealants etc.

2. Raw material is any material that requires further work to make it into a component part of the aircraft such as metals, plastics, wood, fabric etc.

3. Material both raw and consumable should only be accepted when satisfied that it is to the required specification. To be satisfied, the material and or its packaging should be marked with the specification and where appropriate the batch number.

4. Documentation accompanying all material should clearly relate to the particular material and contain a conformity statement plus both the manufacturing and supplier source. Some material is subject to special conditions such as storage condition or life limitation etc. and this should be included on the documentation and/or material packaging.

5. AW FORM 1 or equivalent is not normally issued for such material and therefore none should be expected. The material specification is normally identified in the TC holder’s data except in the case where the GCAA has agreed otherwise.
6. Items purchased in batches (fasteners etc.) should be supplied intact in the original equipment manufacturer (OEM) package. Packaging should state the P/N, batch number and the quantity specified in the package. The documentation accompanying the material should contain P/N, lot number and the supplied quantity, and the manufacturing sources. If the material is acquired from different lots, acceptance documentation for each lot should be supplied.

7. Reserved

**AMC CAR M.502 Component maintenance**

Component removal from and installation on an aircraft is considered to be aircraft maintenance and not component maintenance. As a consequence, CAR M.502 requirements do not apply to this case.

**AMC CAR M.502(b) and (c) Component maintenance**

CAR M.502(b) and (c) allow the performance of certain component maintenance, in accordance with component maintenance data, to maintenance organisations not holding the corresponding B/C rating, subject to the agreement of the GCAA.

This should only be permitted by the GCAA in the case of simple component maintenance, where the GCAA is satisfied that the certifying staff are appropriately qualified and the proper tooling and facilities are available. It is important to note that for more complex component maintenance, special qualifications may be required and it is not enough with holding a CAR 66 aircraft maintenance licence.

**AMC CAR M.504 (a) - Control of unserviceable components**

A component continues to be unserviceable until a decision is taken pursuant to AMC CAR M.605 (c) 6

**AMC CAR M.504 (b) - Control of unserviceable components**

1. Section A Subpart F / CAR 145 approved maintenance organisation performing maintenance should ensure proper identification of any unserviceable components.

2. The unserviceable status of the component should be clearly declared on a tag together with the component identification data and any information useful to define actions necessary to be taken. Such information should state, as applicable, in service times, maintenance status, preservation status, failures, defects or malfunctions reported or detected exposure to adverse environmental conditions, if the component has been involved in or affected by an accident/incident. Means should be provided to prevent unwanted separation of this tag from the component.

3. Reserved
“A secure location under the control of an approved maintenance organisation” means a secure location for which security is the responsibility of the approved maintenance organisation. This may include facilities established by the approved maintenance organisation at locations different from the main maintenance facilities. These locations should be identified in the relevant procedures of the approved maintenance organisation.

AMC CAR M.504 (c) - Control of unserviceable components – unsalvable components

1. The following types of components should typically be classified as unsalvable:
   (a) components with non-repairable defects, whether visible or not to the naked eye;
   (b) components that do not meet design specifications, and cannot be brought into conformity with such specifications;
   (c) components subjected to unacceptable modification or rework that is irreversible;
   (d) certified life-limited parts that have reached or exceeded their certified life limits, or have missing or incomplete records;
   (e) components that cannot be returned to airworthy condition due to exposure to extreme forces, heat or adverse environment;
   (f) components for which conformity with an applicable airworthiness directive cannot be accomplished;
   (g) components for which continuing airworthiness records and/or traceability to the manufacturer cannot be retrieved.

2. It is common practice for possessors of aircraft components to dispose of unsalvable components by selling, discarding, or transferring such items. In some instances, these items have reappeared for sale and in the active parts inventories of the aviation community. Misrepresentation of the status of components and the practice of making such items appear serviceable has resulted in the use of unsalvable nonconforming components. Therefore organisations disposing of unsalvable aircraft components should consider the possibility of such components later being misrepresented and sold as serviceable components. Caution should be exercised to ensure that unsalvable components are disposed of in a manner that does not allow them to be returned to service.

AMC CAR M.504 (d) 2 - Control of unserviceable components

1. Mutilation should be accomplished in such a manner that the components become permanently unusable for their original intended use. Mutilated components should not be able to be reworked or camouflaged to provide the appearance of being serviceable, such as by re-plating, shortening and re-threading long bolts, welding, straightening, machining, cleaning, polishing, or repainting.

2. Mutilation may be accomplished by one or a combination of the following procedures:
   (a) grinding,
   (b) burning,
   (c) removal of a major lug or other integral feature,
   (d) permanent distortion of parts,
(e) cutting a hole with cutting torch or saw,
(f) melting,
(g) sawing into many small pieces,
(h) any other method accepted by the GCAA on a case by case basis.

3. The following procedures are examples of mutilation that are often less successful because they may not be consistently effective:
   (a) stamping or vibro-etching,
   (b) spraying with paint,
   (c) small distortions, incisions or hammer marks,
   (d) identification by tag or markings,
   (e) drilling small holes,
   (f) sawing in two pieces only.

4. Since manufacturers producing approved aircraft components should maintain records of serial numbers for "retired" certified life-limited or other critical components, the organisation that mutilates a component should provide the original manufacturer with the data plate and/or serial number and final disposition of the component.

AMC CAR M.504 (e) - Control of unserviceable components

A maintenance organisation may choose, in agreement with the component’s owner, to release an unsalvageable component for legitimate non-flight uses, such as for training and education, research and development. In such instances, mutilation may not be appropriate. The following methods should be used to prevent the component re-entering the aviation supply system:

(a) permanently marking or stamping the component, as "NOT SERVICEABLE." (Ink stamping is not an acceptable method);
(b) removing original part number identification;
(c) removing data plate identification;
(d) maintaining a tracking or accountability system, by serial number or other individualised data, to record transferred unsalvageable aircraft component;
(e) including written procedures concerning disposal of such components in any agreement or contract transferring such components.

NOTE: Unsalvageable components should not be released to any person or organisation that is known to return unsalvageable components back into the aviation supply system, due to the potential safety threat.

AMC CAR M.601 Scope

An approved maintenance organisation may be approved to maintain aircraft/aircraft components type accepted by the GCAA.
AMC CAR M.602 Application

An application should be made on an AWF-AMO-001(Appendix IX) or equivalent acceptable to the GCAA.

The AWF-AMO-001 is valid for the application for both CAR M. Subpart F and CAR M. Subpart G organisations. Organisations applying for both approvals may do so using a single AWF-AMO-001.

AMC CAR M.603 (a) Extent of Approval

The following table identifies the ATA specification 100 chapter for the category C component rating. If the maintenance manual (or equivalent document) does not follow the ATA Chapters, the corresponding subjects still apply to the applicable C Rating.

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AMC CAR M.603 (b) Extent of approval

1. The agreement by the GCAA for the fabrication of parts by the approved maintenance organisation should be formalised through the approval of a detailed procedure in the maintenance organisation manual. This AMC contains principles and conditions to be taken into account for the preparation of an acceptable procedure.

2. Fabrication, inspection, assembly and test should be clearly within the technical and procedural capability of the approved maintenance organisation.

3. The approved data necessary to fabricate the part are those approved either by the GCAA, the TC holder, CAR 21 design organisation approval holder, or STC holder.

4. Items fabricated by an approved maintenance organisation may only be used by that organisation in the course of overhaul, maintenance, modifications, or repair of aircraft or components undergoing work within its own facility. The permission to fabricate does not constitute approval for manufacture, or to supply externally and the parts do not qualify for certification on AW FORM 1. This also applies to the bulk transfer or surplus inventory, in that locally fabricated parts are physically segregated and excluded from any delivery certification.

5. Fabrication of parts, modification kits etc. for onward supply and/or sale may not be conducted under a CAR M. Subpart F approval.

6. The data specified in paragraph 3 may include repair procedures involving the fabrication of parts. Where the data on such parts is sufficient to facilitate fabrication, the parts may be fabricated by an approved maintenance organisation. Care must be taken to ensure that the data include details of part numbering, dimensions, materials, processes, and any special manufacturing techniques, special raw material specification or/and incoming inspection requirement and that the approved organisation has the necessary capability. That capability should be defined by way of maintenance organisation manual content. Where special processes or inspection procedures are defined in the approved data which are not available at the approved maintenance organisation, that organisation cannot fabricate the part unless the TC/STC-holder gives an approved alternative.

7. Examples of fabrication under the scope of an CAR M. Subpart F approval can include but are not limited to the following:

   (a) fabrication of bushes, sleeves and shims,
   (b) fabrication of secondary structural elements and skin panels,
   (c) fabrication of control cables,
   (d) fabrication of flexible and rigid pipes,
   (e) fabrication of electrical cable looms and assemblies,
   (f) formed or machined sheet metal panels for repairs.

Note: It is not acceptable to fabricate any item to pattern unless an engineering drawing of the item is produced which includes any necessary fabrication processes and which is acceptable to the GCAA.

8. Where a TC-holder or an approved production organisation is prepared to make available complete data which is not referred to in aircraft manuals or service bulletins but provides manufacturing drawings for items specified in parts lists, the fabrication of these items is not considered to be within the scope of an CAR M. Subpart F approval unless agreed
otherwise by the GCAA in accordance with a procedure specified in the maintenance organisation manual.

9. Inspection and Identification.

Any locally fabricated part should be subject to an inspection stage before, separately, and preferably independently from, any inspection of its installation. The inspection should establish full compliance with the relevant manufacturing data, and the part should be unambiguously identified as fit for use by stating conformity to the approved data. Adequate records should be maintained of all such fabrication processes including heat treatment and the final inspections. All parts, excepting those with inadequate space, should carry a part number which clearly relates it to the manufacturing/inspection data. Additional to the part number the approved maintenance organisation’s identity should be marked on the part for traceability purposes.

AMC CAR M.604 Maintenance organisation manual

1. Appendix IV to this AMC provides an outline of the format of an acceptable maintenance organisation manual for a small organisation with less than 10 maintenance staff.

2. The maintenance organisation exposition as specified in CAR 145 provides an outline of the format of an acceptable maintenance organisation manual for larger organisations with more than 10 maintenance staff, dependent upon the complexity of the organisation.

AMC CAR M.605 (a) Facilities

1. Where a hangar is not owned by the CAR M. Subpart F organisation, it may be necessary to establish proof of tenancy. In addition, sufficiency of hangar space to carry out planned maintenance should be demonstrated by the preparation of a projected aircraft hangar visit plan relative to the aircraft maintenance programme. The aircraft hangar visit plan should be updated on a regular basis.

2. For airships a hangar may not be required where maintenance of the envelope and bottom end equipment can more appropriately be performed outside, providing all necessary maintenance can be accomplished in accordance with CAR M.402. For complex repairs or component maintenance requiring an AW FORM 1, suitable approved workshops should be provided. The facilities and environmental conditions required for inspection and maintenance should be defined in the Maintenance Organisation Manual.

3. Protection from the weather elements relates to the normal prevailing local weather elements that are expected throughout any twelve-month period. Aircraft hangar and aircraft component workshop structures should be to a standard that prevents the ingress of rain, hail, ice, snow, wind and dust etc. Aircraft hangar and aircraft component workshop floors should be sealed to minimise dust generation.

4. Aircraft maintenance staff should be provided with an area where they may study maintenance instructions and complete continuing airworthiness records in a proper manner.
AMC CAR M.605 (b) Facilities

It is acceptable to combine any or all of the office accommodation requirements into one office subject to the staff having sufficient room to carry out assigned tasks.

AMC CAR M.605 (c) Facilities

1. Storage facilities for serviceable aircraft components should be clean, well-ventilated and maintained at an even dry temperature to minimise the effects of condensation. Manufacturer’s storage recommendations should be followed for those aircraft components identified in such published recommendations.

2. Adequate storage racks should be provided and strong enough to hold aircraft components and provide sufficient support for large aircraft components such that the component is not damaged during storage.

3. All aircraft components, wherever practicable, should remain packaged in their protective material to minimise damage and corrosion during storage. A shelf life control system should be utilised and identity tags used to identify components.

4. Segregation means storing unserviceable components in a separate secured location from serviceable components.

5. Segregation and management of any unserviceable component should be ensured according to the pertinent procedure approved to that organisation.

6. Procedures should be defined by the organisation describing the decision process for the status of unserviceable components. This procedure should identify at least the following:
   • role and responsibilities of the persons managing the decision process;
   • description of the decision process to choose between maintaining, storing or mutilating a component;
   • traceability of decision

7. Once unserviceable components or materials have been identified as unsalvageable in accordance with CAR M.504 (c), the organisation should establish secure areas in which to segregate such items and to prevent unauthorised access. Unsalvageable components should be managed through a procedure to ensure that these components receive the appropriate final disposal according to CAR M.504 (d) or (e). The person responsible for the implementation of this procedure should be identified.

AMC CAR M.606 (a) Personnel requirements

With regard to the accountable manager, it is normally intended to mean the chief executive officer of the maintenance organisation approved under CAR M. Subpart F, who by virtue of position has overall (including in particular financial) responsibility for running the organisation. The accountable manager may be the accountable manager for more than one organisation and is not required to be necessarily knowledgeable on technical matters. When the accountable manager is not the chief executive officer, the GCAA will need to be assured that such an accountable manager has direct access to chief executive officer and has a sufficiency of maintenance funding allocation.
AMC CAR M.606 (b) Personnel requirements

1. Dependent upon the size of the organisation, the functions may be subdivided under individual managers or combined in any number of ways.

2. The maintenance organisation should have, dependent upon the extent of approval, an aircraft maintenance manager, a workshop manager all of whom should report to the accountable manager. In small maintenance organisations any manager may also be the accountable manager, and may also be the aircraft maintenance manager or the workshop manager.

3. The aircraft maintenance manager is responsible for ensuring that all maintenance required to be carried out, plus any defect rectification carried out during aircraft maintenance, is carried out to the design and quality standards specified in this Part. The aircraft maintenance manager is also responsible for any corrective action resulting from the CAR M.616 organisational review.

4. The workshop manager is responsible for ensuring that all work on aircraft components is carried out to the standards specified in this Part and also responsible for any corrective action resulting from the CAR M.616 organisational review.

5. Notwithstanding the example sub-paragraphs 2 - 4 titles, the organisation may adopt any title for the foregoing managerial positions but should identify to the GCAA the titles and persons chosen to carry out these functions.

AMC CAR M.606(c) Personnel requirements

1. All nominated persons should, in the normal way, be expected to satisfy the GCAA that they possess the appropriate experience and qualifications which are listed in paragraphs 2.1 to 2.5 below.

2. All nominated persons should have:

   2.1. practical experience and expertise in the application of aviation safety standards and safe maintenance practices;

   2.2. comprehensive knowledge of:

      (a) CAR M and any associated requirements and procedures;

      (b) the maintenance organisation manual;

   2.3. five years aviation experience of which at least three years should be practical maintenance experience;

   2.4. knowledge of the relevant type(s) of aircraft or components maintained. This knowledge may be demonstrated by documented evidence or by an assessment performed by the GCAA. This assessment should be recorded.

      Training courses should be as a minimum at a level equivalent to CAR 66 Appendix III Level 1 General Familiarisation, and could be imparted by a CAR 147 organisation, by the manufacturer, or by any other organisation accepted by the GCAA.

   2.5. knowledge of maintenance standards.
AMC CAR M.606 (d) Personnel requirements

1. All staff are subjected to compliance with the organisation’s procedures specified in the maintenance organisation manual relevant to their duties.

2. To have sufficient staff means that the approved maintenance organisation employs or contracts staff directly, even on a volunteer basis, for the anticipated maintenance workload.

3. Temporarily sub-contracted means the person is employed by another organisation and contracted by that organisation to the approved maintenance organisation.

AMC CAR M.606(e) Personnel requirements

1. Personnel involved in maintenance should be assessed for competence by 'on the job' evaluation and/or by examination relevant to their particular job role within the organisation before unsupervised work is permitted.

2. Adequate initial and recurrent training should be provided and recorded to ensure continued competence.

AMC CAR M.606 (f) Personnel requirements

1. Continued airworthiness non-destructive testing means such testing specified by the type certificate holder of the aircraft, engine or propeller in the CAR M.304 (b) maintenance data for in service aircraft/aircraft components for the purpose of determining the continued fitness of the product to operate safely.

2. Appropriately qualified means to level 1, 2 or 3 as defined by European Standard 4179:2000 (EN 4179), MIL-STD-410E, ATA Specification 105, or any other equivalent standard acceptable to the GCAA dependent upon the non-destructive testing function to be carried out.

3. Notwithstanding the fact that level 3 personnel may be qualified via EN 4179, MIL-STD-410E and ATA Specification 105 to establish and authorise methods, techniques, etc., this does not permit such personnel to deviate from methods and techniques published by the type certificate holder/manufacturer in the form of continued airworthiness data, such as in non-destructive test manuals or service bulletins, unless the manual or service bulletin expressly permits such deviation.

4. Notwithstanding the general references in EN 4179 to a national aerospace NDI board, all examinations should be conducted by personnel or organisations under the general control of such a board. In the absence of a national aerospace NDI board, examinations should be conducted by personnel or organisations under the general control of the NDI board of a State designated by the GCAA.

5. Particular non-destructive test means any one or more of the following: dye penetrant, magnetic particle, eddy current, ultrasonic and radiographic methods including X ray and gamma ray.
6. In addition it should be noted that new methods are and will be developed, such as, but not limited to thermography and shearography, which are not specifically addressed by EN 4179. Until such time as an agreed standard is established such methods should be carried out in accordance with the particular equipment manufacturers’ recommendations including any training and examination process to ensure competence of the personnel with the process.

7. Any approved maintenance organisation that carries out continued airworthiness non-destructive testing should establish qualification procedures for non-destructive testing.

8. Boroscopying and other techniques such as delamination coin tapping are non-destructive inspections rather than non-destructive testing. Notwithstanding such differentiation, approved maintenance organisation should establish a procedure to ensure that personnel who carry out and interpret such inspections are properly trained and assessed for their competence with the process. Non-destructive inspections, not being considered as non-destructive testing by CAR M. Subpart F are not listed in Appendix IV to CAR M under class rating D1.

9. The referenced standards, methods, training and procedures should be specified in the maintenance organisation manual.

10. Any such personnel who intend to carry out and/or control a non-destructive test for which they were not qualified prior to the effective date of CAR M should qualify for such non-destructive test in accordance with EN 4179.

11. In this context officially recognised standard means those standards established or published by an official body whether having legal personality or not, which are widely recognised by the air transport sector as constituting good practice.

**AMC CAR M.606(h)2 Personnel requirements**

1. For the issue of a limited certification authorisation the commander should hold either a valid air transport pilot licence (ATPL), or commercial pilot licence (CPL), or a national equivalent acceptable to the GCAA on the aircraft type. In addition, the limited certification authorisation is subject to the maintenance organisation manual containing procedures to address the following:

   (a) Completion of adequate maintenance airworthiness regulation training.

   (b) Completion of adequate task training for the specific task on the aircraft. The task training should be of sufficient duration to ensure that the individual has a thorough understanding of the task to be completed and should involve training in the use of associated maintenance data.

   (c) Completion of the procedural training.

   The above procedures should be specified in the maintenance organisation manual and be accepted by the GCAA.

2. Typical tasks that may be certified and/or carried out by the commander holding an ATPL or CPL are minor maintenance or simple checks included in the following list:

   (a) Replacement of internal lights, filaments and flash tubes.

   (b) Closing of cowlings and refitment of quick access inspection panels.
(c) Role changes, e.g., stretcher fit, dual controls, FLIR, doors, photographic equipment etc.

(d) Inspection for and removal of de-icing/anti-icing fluid residues, including removal/closure of panels, cowls or covers that are easily accessible but not requiring the use of special tools.

(e) Any check/replacement involving simple techniques consistent with this AMC and as agreed by the GCAA.

3. The authorisation should have a finite life of twelve months subject to satisfactory recurrent training on the applicable aircraft type.

AMC CAR M.607 Certifying staff

1. Adequate understanding of the relevant aircraft and/or aircraft component(s) to be maintained together with the associated organisation procedures means that the person has received training and has relevant maintenance experience on the product type and associated organisation procedures such that the person understands how the product functions, what are the more common defects with associated consequences.

2. All prospective certifying staff are required to be assessed for competence, qualification and capability related to intended certifying duties. Competence and capability can be assessed by having the person work under the supervision of another certifying person for sufficient time to arrive at a conclusion. Sufficient time could be as little as a few weeks if the person is fully exposed to relevant work. The person need not be assessed against the complete spectrum of intended duties. When the person has been recruited from another approved maintenance organisation and was a certifying person in that organisation then it is reasonable to accept a written confirmation from the previous organisation.

3. The organisation should hold copies of all documents that attest to qualification, and to recent experience.

AMC CAR M.607 (c) Certifying staff

1. The following minimum information as applicable should be kept on record in respect of each certifying person:

   (a) name;
   (b) date of birth;
   (c) basic training;
   (d) type training;
   (e) recurrent training;
   (f) specialised training;
   (g) experience;
   (h) qualifications relevant to the approval;
   (i) scope of the authorisation and personal authorisation reference;
   (j) date of first issue of the authorisation;
(k) if appropriate - expiry date of the authorisation.

2. Persons authorised to access the system should be maintained at a minimum to ensure that records cannot be altered in an unauthorised manner or that such confidential records become accessible to unauthorised persons.

3. The GCAA should be granted access to the records upon request.

AMC CAR M.608 (a) Components, equipment and tools

1. Once the applicant for CAR M. Subpart F approval has determined the intended scope of approval for consideration by the GCAA, it will be necessary to show that all tools and equipment as specified in the maintenance data can be made available when needed.

2. All such tools should be clearly identified and listed in a control register including any personal tools and equipment that the organisation agrees can be used.

3. For tools required on an occasional basis, the organisation should ensure that they are controlled in terms of servicing or calibration as required.

AMC CAR M.608 (b) Components, equipment and tools

1. The control of these tools and equipment requires that the organisation has a procedure to inspect/service and, where appropriate, calibrate such items on a regular basis and indicate to users that the item is within any inspection or service or calibration time-limit. A clear system of labelling all tooling, equipment and test equipment is therefore necessary giving information on when the next inspection or service or calibration is due and if the item is unserviceable for any other reason where it may not be obvious. A register should be maintained for all the organisation’s precision tooling and equipment together with a record of calibrations and standards used.

2. Inspection, service or calibration on a regular basis should be in accordance with the equipment manufacturers’ instructions except where the CAR M. Subpart F organisation can show by results that a different time period is appropriate in a particular case.

3. In this context officially recognised standard means those standards established or published by an official body whether having legal personality or not, which are widely recognised by the air transport sector as constituting good practice.

AMC CAR M.609 Maintenance Data

When an organisation uses customer provided maintenance data, the scope of approval indicated in the maintenance organisation manual should be limited to the individual aircraft covered by the contracts signed with those customers unless the organisation also holds its own complete set of maintenance data for that type of aircraft.
AMC CAR M.610 Maintenance work orders

“A written work order” may take the form of, but not limited to, the following:

- A formal document or form specifying the work to be carried out. This form may be provided by the continuing airworthiness management organisation managing the aircraft, or by the maintenance organisation undertaking the work, or by the owner/operator himself.

- An entry in the aircraft log book specifying the defect that needs to be corrected.

AMC CAR M.613 (a) Component certificate of release to service

1. An aircraft component which has been maintained off the aircraft requires the issue of a certificate of release to service for such maintenance and another CRS to service in regard to being installed properly on the aircraft when such action occurs.

2. In the case of components in storage prior to CAR 145, CAR M and CAR 21 and not released on an AW FORM 1 or equivalent in accordance with CAR M.501(a) or removed serviceable from active aircraft which have been withdrawn from service, this paragraph provides additional guidance regarding the conditions under which an AW FORM 1 may be issued.

2.1 An AW FORM 1 may be issued for an aircraft component which has been:

- released without an AW FORM 1 or equivalent.
- Used on an aircraft and removed in a serviceable condition. Examples include leased and loaned aircraft components.
- Removed from aircraft which have been withdrawn from service, or from aircraft which have been involved in abnormal occurrences such as accidents, incidents, heavy landings or lightning strikes.
- Components maintained by an unapproved organisation.

2.2 An appropriately rated CAR M. Subpart F maintenance organisation may issue an AW FORM 1 as detailed in this AMC sub-paragraph 2.5 to 2.9, as appropriate, in accordance with procedures detailed in the manual as approved by the GCAA. The appropriately rated CAR M. Subpart F maintenance organisation is responsible for ensuring that all reasonable measures have been taken to ensure that only approved and serviceable aircraft components are issued an AW FORM 1 under this paragraph.

2.3 For the purposes of this paragraph 2 only, appropriately rated means an organisation with an approval class rating for the type of component or for the product in which it may be installed.

2.4 An AW FORM 1 issued in accordance with this paragraph 2 should be issued by signing in block 14a – 14e and stating "Inspected" in block 11. In addition, block 12 should specify:

2.4.1 When the last maintenance was carried out and by whom;

2.4.2 If the component is unused, when the component was manufactured and by whom with a cross reference to any original documentation which should be included with the Form;
2.4.3 A list of all airworthiness directives, repairs and modifications known to have been incorporated. If no airworthiness directives or repairs or modifications are known to be incorporated then this should be so stated.

2.4.4 Details of life used for service life limited parts being any combination of fatigue, overhaul or storage life;

2.4.5 For any aircraft component having its own maintenance history record, reference to the particular maintenance history record as long as the record contains the details that would otherwise be required in block 13. The maintenance history record and acceptance test report or statement, if applicable, should be attached to the AW FORM 1.

2.5. New / unused aircraft components

2.5.1 Any unused aircraft component in storage without an AW FORM 1 up to the effective date(s) for CAR 21 that was manufactured by an organisation acceptable to the GCAA at the time may be issued an AW FORM 1 by an appropriately rated maintenance organisation approved under CAR M. Subpart F. The AW FORM 1 should be issued in accordance with the following subparagraphs which should be included in a procedure within the maintenance organisation manual.

Note 1: It should be understood that the release of a stored but unused aircraft component in accordance with this paragraph represents a maintenance release under CAR M. Subpart F and not a production release under CAR 21. It is not intended to bypass the production release procedure agreed by the GCAA for parts and subassemblies intended for fitment on the manufacturers own production line.

(a) An acceptance test report or statement should be available for all used and unused aircraft components that are subjected to acceptance testing after manufacturing or maintenance as appropriate.

(b) The aircraft component should be inspected for compliance with the manufacturer’s instructions and limitations for storage and condition including any requirement for limited storage life, inhibitors, controlled climate and special storage containers. In addition or in the absence of specific storage instructions the aircraft component should be inspected for damage, corrosion and leakage to ensure good condition.

(c) The storage life used of any storage life limited parts should be established.

2.5.2 If it is not possible to establish satisfactory compliance with all applicable conditions specified in subparagraph 2.5.1 (a) to (c) inclusive the aircraft component should be disassembled by an appropriately rated organisation and subjected to a check for incorporated airworthiness directives, repairs and modifications and inspected/tested in accordance with the manufacturers maintenance instructions to establish satisfactory condition and, if relevant, all seals, lubricants and life limited parts replaced. On satisfactory completion after reassembly an AW FORM 1 may be issued stating what was carried out and the reference of the manufacturers maintenance instructions included.
2.6. Used aircraft components removed from a serviceable aircraft.

2.6.1. Serviceable aircraft components removed from a UAE registered aircraft may be issued an AW FORM 1 by an appropriately rated organisation subject to compliance with this subparagraph.

(a) The organisation should ensure that the component was removed from the aircraft by an appropriately qualified person.

(b) The aircraft component may only be deemed serviceable if the last flight operation with the component fitted revealed no faults on that component/related system.

(c) The aircraft component should be inspected for satisfactory condition including in particular damage, corrosion or leakage and compliance with any additional manufacturer’s maintenance instructions.

(d) The aircraft record should be researched for any unusual events that could affect the serviceability of the aircraft component such as involvement in accidents, incidents, heavy landings or lightning strikes. Under no circumstances may an AW FORM 1 be issued in accordance with this paragraph 2.6 if it is suspected that the aircraft component has been subjected to extremes of stress, temperatures or immersion which could affect its operation.

(e) A maintenance history record should be available for all used serialised aircraft components.

(f) Compliance with known modifications and repairs should be established.

(g) The flight hours/cycles/landings as applicable of any service life limited parts including time since overhaul should be established.

(h) Compliance with known applicable airworthiness directives should be established.

(i) Subject to satisfactory compliance with this subparagraph 2.6.1 an AW FORM 1 may be issued and should contain the information as specified in paragraph 2.4 including the aircraft from which the aircraft component was removed.

2.6.2. Serviceable aircraft components removed from a non UAE registered aircraft may only be issued an AW FORM 1 if the components are leased or loaned from the maintenance organisation approved under CAR M. Subpart F who retains control of the airworthiness status of the components. An AW FORM 1 may be issued and should contain the information as specified in paragraph 2.4 including the aircraft from which the aircraft component was removed.

2.7. Used aircraft components removed from an aircraft withdrawn from service.

Serviceable aircraft components removed from a UAE registered aircraft withdrawn from service may be issued an AW FORM 1 by a maintenance organisation approved under CAR M. Subpart F subject to compliance with this sub paragraph.

(a) Aircraft withdrawn from service are sometimes dismantled for spares. This is considered to be a maintenance activity and should be accomplished under the
control of an organisation approved under CAR M. Subpart F, employing procedures approved by the GCAA.

(b) To be eligible for installation components removed from such aircraft may be issued with an AW FORM 1 by an appropriately rated organisation following a satisfactory assessment.

(c) As a minimum the assessment will need to satisfy the standards set out in paragraphs 2.5 and 2.6 as appropriate. This should where known, include the possible need for the alignment of scheduled maintenance that may be necessary to comply with the maintenance programme applicable to the aircraft on which the component is to be installed.

(d) Irrespective of whether the aircraft holds a certificate of airworthiness or not, the organisation responsible for certifying any removed component should satisfy itself that the manner in which the components were removed and stored are compatible with the standards required by CAR M. Subpart F.

(e) A structured plan should be formulated to control the aircraft disassembly process. The disassembly is to be carried out by an appropriately rated organisation under the supervision of certifying staff, who will ensure that the aircraft components are removed and documented in a structured manner in accordance with the appropriate maintenance data and disassembly plan.

(f) All recorded aircraft defects should be reviewed and the possible effects these may have on both normal and standby functions of removed components are to be considered.

(g) Dedicated control documentation is to be used as detailed by the disassembly plan, to facilitate the recording of all maintenance actions and component removals performed during the disassembly process. Components found to be unserviceable are to be identified as such and quarantined pending a decision on the actions to be taken. Records of the maintenance accomplished to establish serviceability are to form part of the component maintenance history.

(h) Suitable CAR M. Subpart F facilities for the removal and storage of removed components are to be used which include suitable environmental conditions, lighting, access equipment, aircraft tooling and storage facilities for the work to be undertaken. While it may be acceptable for components to be removed, given local environmental conditions, without the benefit of an enclosed facility subsequent disassembly (if required) and storage of the components should be in accordance with manufacturer’s recommendations.

2.8. Used aircraft components maintained by organisations not approved in accordance with CAR M. Subpart F or CAR 145.

For used components maintained by a maintenance organisation unapproved under CAR M. Subpart F or CAR 145, due care should be exercised before acceptance of such components. In such cases an appropriately rated maintenance organisation approved under CAR M. Subpart F should establish satisfactory conditions by:

(a) dismantling the component for sufficient inspection in accordance with the appropriate maintenance data,
(b) replacing of all service life limit components when no satisfactory evidence of life used is available and/or the components are in an unsatisfactory condition,
(c) reassembling and testing as necessary the component,
(d) completing all certification requirements as specified in CAR M.613

2.9. Used aircraft components removed from an aircraft involved in an accident or incident.

Such components should only be issued with an AW FORM 1 when processed in accordance with paragraph 2.7 and a specific work order including all additional necessary tests and inspections made necessary by the accident or incident. Such a work order may require input from the TC holder or original manufacturer as appropriate. This work order should be referenced in block 12.

3. A certificate should not be issued for any component when it is known that the component is unserviceable except in the case of a component undergoing a series of maintenance processes at several approved maintenance organisations and the component needs a certificate for the previous maintenance process carried out for the next approved maintenance organisation to accept the component for subsequent maintenance processes. A clear statement of limitation should be endorsed in block 12.

4. The certificate is to be used for export/import purposes, as well as for domestic purposes, and serves as an official certificate for components from the manufacturer/maintenance organisation to users. The certificate is not a delivery or shipping note. It should only be issued by organisations approved by the GCAA within the scope of the approval.

AMC CAR M.614 (a) Maintenance records

1. Properly executed and retained records provide owners, operators and maintenance personnel with information essential in controlling unscheduled and scheduled maintenance, and troubleshooting to eliminate the need for re-inspection and rework to establish airworthiness.

The prime objective is to have secure and easily retrievable records with comprehensive and legible contents. The aircraft record should contain basic details of all serialised aircraft components and all other significant aircraft components installed, to ensure traceability to such installed aircraft component documentation and associated CAR M.304 maintenance data.

2. The maintenance record can be either a paper or computer system or any combination of both. The records should remain legible throughout the required retention period.

3. Paper systems should use robust material which can withstand normal handling and filing.

4. Computer systems may be used to control maintenance and/or record details of maintenance work carried out. Computer systems used for maintenance should have at least one backup system which should be updated at least within 24 hours of any maintenance. Each terminal is required to contain programme safeguards against the ability of unauthorised personnel to alter the database.
AMC CAR M.614 (c) Maintenance records

Associated maintenance data is specific information such as repair and modification data. This does not necessarily require the retention of all aircraft maintenance manual, component maintenance manual, parts catalogues etc. issued by the TC holder or STC holder. Maintenance records should refer to the revision status of the data used.

AMC CAR M.615 (b) Privileges of the organisation

CAR M.615(b) refers to work carried out by another organisation which is not appropriately approved under CAR M. Subpart F or CAR 145 to carry out such tasks.

The intent is to permit the acceptance of specialised maintenance services, such as, but not limited to, non-destructive testing, surface treatment, heat-treatment, welding, fabrication of specified parts for minor repairs and modifications, etc., without the need of Subpart F approval for those tasks.

The requirement that the organisation performing the specialised services must be “appropriately qualified” means that it should meet an officially recognised standard or, otherwise, it should be acceptable to the GCAA (through the approval of the Maintenance Organisation Manual).

“Under the control of the Subpart F organisation” means that the Subpart F organisation should investigate the capability of the subcontracted organisation (including qualifications, facilities, equipment and materials) and ensure that such organisation:

- Receives appropriate maintenance instructions and maintenance data for the task to be performed.
- Properly records the maintenance performed in the Subpart F airworthiness records.
- Notifies the Subpart F organisation for any deviation or non-conformity, which has arisen during such maintenance.

The certificate of release to service may be issued either at the subcontractors or at the organisation facility by authorised certifying staff, and always under the CAR M. Subpart F organisation reference. Such staff would normally come from the CAR M. Subpart F organisation but may otherwise be a person from the subcontractor who meets the CAR M. Subpart F organisation certifying staff standard which itself is approved by the GCAA via the Maintenance Organisation Manual.

Subcontracted specialised services organisations should be listed in the Maintenance Organisation Manual of the Subpart F organisation together with their qualifications, and the associated control procedures.

AMC CAR M.616 Organisational review (see also Appendix VIII to AMC CAR M.616)

1. The primary objectives of the organisational review are to enable the approved maintenance organisation to ensure that it can deliver a safe product and that approved maintenance organisation remains in compliance with the requirements.

2. The approved maintenance organisation should identify:
   2.1. The person responsible for the organisational review, and;
   2.2. The frequency of the reviews, and;
   2.3. The scope and content of the reviews, and;
2.4. The persons accomplishing the reviews, and;

2.5. The procedure for planning, performing and processing review findings.

2.6. The procedure for ensuring corrective actions are carried out in the appropriate time frame.

3. The organisation quality system as specified in CAR 145 provides an acceptable basic structure for the organisational review system for organisations with more than 10 maintenance staff, dependent upon the complexity of the organisation.

4. Appendix VIII should be used to manage the organisational reviews.

**AMC CAR M.617 Changes to the approved maintenance organisation**

The GCAA should be given adequate notification of any proposed changes in order to enable the maintenance organisation to remain approved if agreed by the GCAA during negotiations about any of the specified changes. Without this paragraph the approval would automatically be suspended in all cases.

**AMC CAR M.702 Application**

An application should be made on an AWF-AMO-001 (Appendix IX) or equivalent acceptable to the GCAA.

The AWF-AMO-001 is valid for the application for both CAR M. Subpart F and CAR M. Subpart G organisations. Organisations applying for both approvals may do it using a single AWF-AMO-001.

**GM CAR M.702 Application**

Guidance Material relating to the approval and oversight of continuing airworthiness management activities for CAR M continuing airworthiness management organisations based in the UAE and outside the UAE is available in APPENDIX XIV to GM CAR M.702.

**AMC CAR M.704 Continuing airworthiness management exposition** (see Appendices to CAR M Appendix V to AMC CAR M.704)

1. The purpose of the continuing airworthiness management exposition is to set forth the procedures, means and methods of the CAR M. Subpart G organisation. Compliance with its contents will assure compliance with CAR M requirements.

2. A continuing airworthiness management exposition should comprise:

   Part 0 General organisation

   Part 1 Continuing airworthiness procedures

   Part 2 Quality system or organisational review (as applicable)

   Part 3 Contracted maintenance (for operators) – management of maintenance (liaison with maintenance organisations in the case of non commercial air transport)

   Part 4 Airworthiness review procedures (if applicable)
3. Where a CAR M. Subpart G organisation is also approved to another CAR, the exposition or manual required by the other CAR may form the basis of the continuing airworthiness management exposition in a combined document. Example for a combined CAR 145 and CAR M. Subpart G organisation:

*CAR 145 Exposition (see equivalent paragraphs in AMC 145.70(a))*

Part 1 Management

Part 2 Maintenance procedures

Part L2 Additional line maintenance procedures

Part 3 Quality system and/or organisational review (as applicable)

Part 4 Contracts with owners/operators

Part 5 Appendices (sample of documents)

Part 3 should also cover the functions specified by CAR M.712 quality system.

Part 4 should also cover contracted maintenance (for operators) – Management of maintenance (liaison with maintenance organisations in the case of non commercial air transport)

Additional parts should be introduced covering the following *(see equivalent paragraphs in Appendix V to AMC CAR M.704, which may have a different numbering system)*:

Part 0 General organisation

Part 6 Continuing airworthiness management procedures

Part 7 Airworthiness review procedures (if applicable)

Example for a combined CAR M. Subpart F and CAR M. Subpart G organisation:

*CAR M. Subpart F Maintenance Organisation Manual (see equivalent paragraphs in Appendix IV to AMC CAR M.604, which have a different numbering system)*

Part 1 General

Part 2 Description

Part 3 General Procedures

Part 4 Working Procedures. This Part contains, among other things, procedures for Organisational Reviews.

Part 5 Appendices

Part 4 should also cover the functions specified by CAR M.712 quality system (or organisation review, as applicable).

Additional parts should be introduced covering the following *(see equivalent paragraphs in Appendix V to AMC CAR M.704, which may have a different numbering system)*:

Part 0 General organisation

Part 6 Continuing airworthiness management procedures

Part 7 Airworthiness review procedures (if applicable)
4. Personnel should be familiar with those parts of the exposition that are relevant to their tasks.

5. The CAR M. Subpart G organisation should specify in the exposition who is responsible for the amendment of the document.

6. Unless otherwise agreed by the GCAA, the person responsible for the management of the quality system or for the organisational review should be responsible for monitoring and amending the exposition, including associated procedures manuals, and the submission of proposed amendments to the GCAA. The GCAA may agree a procedure, which will be stated in the amendment control section of the exposition, defining the class of amendments which can be incorporated without the prior consent of the GCAA.

7. The CAR M Subpart G organisation may use electronic data processing (EDP) for publication of the continuing airworthiness management exposition. The continuing airworthiness management exposition should be made available to the GCAA in a form acceptable to the GCAA. Attention should be paid to the compatibility of EDP publication systems with the necessary dissemination of the continuing airworthiness management exposition, both internally and externally.

8. Part 0 “General organisation” of the continuing airworthiness management exposition should include a corporate commitment by the CAR M. Subpart G organisation, signed by the accountable manager confirming that the continuing airworthiness management exposition and any associated manuals define the organisation compliance with CAR M and will be complied with at all times.

9. The accountable manager’s exposition statement should embrace the intent of the following paragraph and in fact this statement may be used without amendment. Any modification to the statement should not alter the intent:

This exposition defines the organisation and procedures upon which the GCAA CAR M. Subpart G continuing airworthiness management approval is based.

These procedures are approved by the undersigned and should be complied with, as applicable, in order to ensure that all continuing airworthiness tasks of..... (Quote operator's name)...... fleet of aircraft and/or of all aircraft under contract in accordance with CAR M.201 (e) with..... (Quote organisation's name)...... are carried out on time to an approved standard.

It is accepted that these procedures do not override the necessity of complying with any new or amended regulation published from time to time where these new or amended regulations are in conflict with these procedures.

It is understood that the GCAA will approve this organisation whilst the GCAA is satisfied that the procedures are being followed and the work standard maintained. It is understood that the GCAA reserves the right to suspend, vary or revoke the CAR M. Subpart G continuing airworthiness management approval of the organisation or the air operators certificate, as applicable, if the GCAA has evidence that the procedures are not followed and the standards not upheld.

Signed ....................................

Dated ....................................

Accountable Manager and .....(quote position)....... 

For and on behalf of .....(quote organisation's name)......
10. Whenever the accountable manager is changed it is important to ensure that the new accountable manager signs the paragraph 9 statement at the earliest opportunity as part of the acceptance by the approving the GCAA.

Failure to carry out this action invalidates the CAR M, Subpart G continuing airworthiness management approval or the air operators certificate.

11. The exposition should contain information as applicable, on how the continuing airworthiness management organisation complies with CDCCL instructions.

Appendix V contains an example of an exposition lay-out.

**AMC CAR M.705 Facilities**

Office accommodation should be such that the incumbents, whether they be continuing airworthiness management, planning, technical records or quality staff, can carry out their designated tasks in a manner that contributes to good standards. In the smaller CAR M. Subpart G organisations, the GCAA may agree to these tasks being conducted from one office subject to being satisfied that there is sufficient space and that each task can be carried out without undue disturbance. Office accommodation should also include an adequate technical library and room for document consultation.

**AMC CAR M.706 Personnel requirements**

1. The person or group of persons should represent the continuing airworthiness management structure of the organisation and be responsible for all continuing airworthiness functions. Dependent on the size of the operation and the organisational set-up, the continuing airworthiness functions may be divided under individual managers or combined in nearly any number of ways. However, if a quality system is in place it should be independent from the other functions.

2. The actual number of persons to be employed and their necessary qualifications is dependent upon the tasks to be performed and thus dependent on the size and complexity of the organisation (general aviation aircraft, corporate aircraft, number of aircraft and the aircraft types, complexity of the aircraft and their age and for commercial air transport, route network, line or charter, ETOPS) and the amount and complexity of maintenance contracting. Consequently, the number of persons needed, and their qualifications may differ greatly from one organisation to another and a simple formula covering the whole range of possibilities is not feasible.

3. To enable the GCAA to accept the number of persons and their qualifications, an organisation should make an analysis of the tasks to be performed, the way in which it intends to divide and/or combine these tasks, indicate how it intends to assign responsibilities and establish the number of man/hours and the qualifications needed to perform the tasks. With significant changes in the aspects relevant to the number and qualifications of persons needed, this analysis should be updated.

4. Nominated person or group of persons should have:

   4.1. practical experience and expertise in the application of aviation safety standards and safe operating practices;
4.2. a comprehensive knowledge of:
   (a) relevant parts of operational requirements and procedures;
   (b) the AOC holder’s Operations Specifications when applicable;
   (c) the need for, and content of, the relevant parts of the AOC holder’s Operations Manual when applicable;

4.3. knowledge of quality systems;

4.4. five years relevant work experience of which at least two years should be from the aeronautical industry in an appropriate position;

4.5. a relevant engineering degree or an aircraft maintenance technician qualification with additional education acceptable to the GCAA. ‘relevant engineering degree’ means an engineering degree from aeronautical, mechanical, electrical, electronic, avionic or other studies relevant to the maintenance and continuing airworthiness of aircraft/aircraft components;

   The above recommendation may be replaced by 5 years of experience additional to those already recommended by paragraph 4.4 above. These 5 years should cover an appropriate combination of experience in tasks related to aircraft maintenance and/or continuing airworthiness management (engineering) and/or surveillance of such tasks

4.6. thorough knowledge with the organisation’s continuing airworthiness management exposition;

4.7. knowledge of a relevant sample of the type(s) of aircraft gained through a formalised training course. These courses should be at least at a level equivalent to CAR 66 Appendix III Level 1 General Familiarisation and could be imparted by a CAR 147 organisation, by the manufacturer, or by any other organisation accepted by the GCAA.

   “Relevant sample” means that these courses should cover typical systems embodied in those aircraft being within the scope of approval.

   For any other aircraft of 2730 Kg MTOM and below the formalised training courses may be replaced by demonstration of knowledge. This knowledge may be demonstrated by documented evidence or by an assessment performed by the GCAA. This assessment should be recorded.

4.8. knowledge of maintenance methods.

4.9. knowledge of applicable regulations

AMC CAR M.706 (e) Personnel requirements

1. The GCAA should only accept that the nominated post holder be employed by the organisation approved under CAR 145 when it is manifest that he/she is the only available competent person in a position to exercise this function, within a practical working distance from the organisation’s offices.

2. This paragraph only applies to contracted maintenance and therefore does not affect situations where the organisation approved under CAR 145 and the CAR M Subpart G organisation are part of the same organisation.
AMC CAR M.706 (f) Personnel requirements

Additional training in fuel tank safety and electrical wiring interconnection systems (EWIS), where applicable, as well as associated inspection standards and maintenance procedures should be provided to the continuing airworthiness management organisations’ technical personnel, especially those technical support staff involved with the management of CDCCL, Service Bulletin assessment, work planning and maintenance programme management. The GCAA’s guidance is provided for training to Continuing Airworthiness Management Organisations’ continuing airworthiness personnel in Appendix XII to AMC to CAR M.706(f).

AMC CAR M.707 (a) Airworthiness review staff

1. Airworthiness review staff are only required if the CAR M. Subpart G organisation wants to be granted CAR M.711 (b) airworthiness review privileges.

2. “experience in continuing airworthiness” means any appropriate combination of experience in tasks related to aircraft maintenance and/or continuing airworthiness management (engineering) and/or surveillance of such tasks.

3. A person qualified to the AMC CAR M.706 subparagraph 4.5 should be considered as holding the equivalent to an aeronautical degree.

4. An appropriate licence in compliance with CAR 66 is one of the following:
   - a category B1 licence in the subcategory of the aircraft reviewed, or
   - a category B2 or C licence, or
   - in the case of piston-engine non-pressurised aeroplanes of 2000 kg MTOM and below, a category B3 licence.

   It is not necessary to satisfy the experience requirements of Part 66 at the time of the review.

5. To hold a position with appropriate responsibilities means the airworthiness review staff should have a position in the organisation independent from the airworthiness management process or with overall authority on the airworthiness management process of complete aircraft.

   Independence from the airworthiness management process may be achieved, among other ways, by:
   - Being authorised to perform airworthiness reviews only on aircraft for which the person has not participated in their management. For example, performing airworthiness reviews on a specific model line, while being involved in the airworthiness management of a different model line.
   - CAR M. Subpart G organisations with CAR 145/CAR M. Subpart F approval, may nominate maintenance personnel from their CAR 145/CAR M. Subpart F organisation as airworthiness review staff, as long as they are not involved in the airworthiness management of the aircraft. These personnel should not have been involved in the release to service of that particular aircraft (other than maintenance tasks performed during the physical survey of the aircraft or performed as a result of findings discovered during such physical survey) to avoid possible conflict of interests.
• Nominating as airworthiness review staff personnel from the Quality Department of the continuing airworthiness management organisation.

Overall authority on the airworthiness management process of complete aircraft may be achieved, among other ways, by:

• Nominating as airworthiness review staff the Accountable Manager or the Maintenance Postholder.

• Being authorised to perform airworthiness reviews only on those particular aircraft for which the person is responsible for the complete continuing airworthiness management process.

• In the case of one-man organisations, this person always has overall authority. This means that this person can be nominated as airworthiness review staff.

**AMC CAR M.707 (a)(1) Airworthiness review staff**

For all aircraft used in commercial air transport and any other aircraft above 2730 kg MTOM, formal aeronautical maintenance training means training (internal or external) supported by evidence on the following subjects:

• Relevant parts of initial and continuing airworthiness regulations.

• Relevant parts of operational requirements and procedures, if applicable.

• The organisation’s continuing airworthiness management exposition.

• Knowledge of a relevant sample of the type(s) of aircraft gained through a formalised training course. These courses should be at least at a level equivalent to CAR 66 Appendix III Level 1 General Familiarisation and could be imparted by a CAR 147 organisation, by the manufacturer, or by any other organisation accepted by the GCAA.

"Relevant sample” means that these courses should cover typical systems embodied in those aircraft being within the scope of approval

• Maintenance methods.

**AMC CAR M.707 (a)(2) Airworthiness review staff**

For any other aircraft of 2730 Kg MTOM and below, not used in commercial air transport:

1. “experience in continuing airworthiness” can be full time or part-time, either as professional or on a voluntary basis.

2. Appropriate aeronautical maintenance training means demonstrated knowledge of the following subjects:

• Relevant parts of initial and continuing airworthiness regulations.

• Relevant parts of operational requirements and procedures, if applicable.

• The organisation’s continuing airworthiness management exposition.

• Knowledge of a relevant sample of the type(s) of aircraft gained through training and/or work experience. Such knowledge should be at least at a level equivalent to CAR 66 Appendix III Level 1 General Familiarisation and could be imparted by a CAR 147 organisation, by the manufacturer, or by any other organisation accepted by the GCAA.
“Relevant sample” means that these courses should cover typical systems embodied in those aircraft being within the scope of approval

- Maintenance methods.

This knowledge may be demonstrated by documented evidence or by an assessment performed by the GCAA or by other airworthiness review staff already authorised within the organisation in accordance with approved procedures. This assessment should be recorded.

**AMC CAR M.707 (b) Airworthiness review staff**

The formal acceptance by the GCAA of the airworthiness review staff is granted through the corresponding GTF-NPA-001.

An airworthiness review “under supervision” means under the supervision of the GCAA. If the organisation has already properly authorised airworthiness review staff, The GCAA may accept that the supervision be performed by this existing airworthiness review staff in accordance with an approved procedure. In such case, evidence of the airworthiness review performed under supervision should be provided to the GCAA together with the GTF-NPA-001. If satisfied, the GCAA will issue the formal acceptance through the GTF-NPA-001.

Once the airworthiness review staff has been accepted by the GCAA, the inclusion of their name in the exposition (refer to CAR M.704(a)5) constitutes the formal authorisation by the organisation.

**AMC CAR M.707 (c) Airworthiness review staff**

In order to keep the validity of the airworthiness review staff authorisation, the airworthiness review staff should have either:

- been involved in continuing airworthiness management activities for at least six months in every two year period, or
- conducted at least one airworthiness review in the last twelve month period.

In order to restore the validity of the authorisation, the airworthiness review staff should conduct at a satisfactory level an airworthiness review under the supervision of the GCAA or, if accepted by the GCAA, under the supervision of another currently valid authorised airworthiness review staff of the concerned continuing airworthiness management organisation in accordance with an approved procedure.

**AMC CAR M.707(e) Airworthiness review staff**

- The minimum content of the airworthiness review staff record should be:
  - Name,
  - Date of Birth,
  - Basic Education,
  - Experience,
  - Aeronautical Degree and/or CAR 66 qualification and/or nationally-recognised maintenance personnel qualification,
  - Initial Training received,
  - Type of Training received,
  - Continuation Training received,
- Experience in continuing airworthiness and within the organisation,
- Responsibilities of current role in the organisation,
- Copy of the authorisation.

**AMC CAR M.708 (a) 3 Continuing Airworthiness Management**

When managing the approval of modifications or repairs the organisation should ensure that Critical Design Configuration Control Limitations are taken into account.

**AMC CAR M.708 (b) Continuing airworthiness management** (see Appendices to CAR M - Appendix IX to AMC CAR M.708 (b))

1. Where an operator is not approved under CAR 145 or an operator’s maintenance organisation is an independent organisation, a contract should be agreed between the operator and a maintenance organisation approved under CAR 145, which specifies, in detail, the work to be performed by the maintenance organisation. Appendix XI to this AMC gives further details on the subject.

2. Both the specification of work and the assignment of responsibilities should be clear, unambiguous and sufficiently detailed to ensure that no misunderstanding should arise between the parties concerned (operator, maintenance organisation and the GCAA) that could result in a situation where work that has a bearing on the airworthiness or serviceability of aircraft is not or will not be properly performed.

3. Special attention should be paid to procedures and responsibilities to ensure that all maintenance work is performed, service bulletins are analysed and decisions taken on accomplishment, airworthiness directives are completed on time and that all work, including non-mandatory modifications is carried out to approved data and to the latest standards.

4. For line maintenance, the actual layout of the contract the IATA Standard Ground Handling Agreement may be used as a basis, but this does not preclude the GCAA from ensuring that the content of the contract is acceptable to them, and especially that the contract allows the operator to properly exercise its maintenance responsibility. Those parts of a contract that have no bearing on the technical or operational aspects of airworthiness are outside the scope of this paragraph.

5. It is possible to contract another operator that is not directly approved under CAR 145. In this case the operator’s continuing airworthiness management exposition should include appropriate procedures to ensure that all this contracted maintenance is ultimately performed on time by organisations approved under CAR 145 in accordance with the contracting operator’s data. In particular the quality system procedures should place great emphasis on monitoring compliance with the above. The list of CAR 145 approved contractors, or a reference to this list, should be included in the operator’s continuing airworthiness management exposition.

6. Such a maintenance arrangement does not absolve the operator from its overall continuing airworthiness responsibility. Specifically, in order to accept the maintenance arrangement, the GCAA should be satisfied that such an arrangement allows the operator to ensure full compliance with responsibilities pursuant to CAR M.201.
7. The purpose of CAR M.708 (b) is to ensure that all maintenance is carried out by properly approved CAR 145 organisations. This does not preclude a primary maintenance arrangement with an operator that is not such an organisation, when it proves that such an arrangement is in the interest of the operator by simplifying the management of its maintenance, and the operator keeps an appropriate control of it. Such an arrangement should not preclude the operator from ensuring that all maintenance is performed by a CAR 145 approved organisation and complying with the CAR M.201 continuing airworthiness responsibility requirements. Typical examples of such arrangements follow:

- Component maintenance:
  The operator may find it more appropriate to have a primary contractor, that would despatch the components to appropriately approved organisations, rather than himself sending different types of components to various maintenance organisations. The benefit for the operator is that the management of maintenance is simplified by having a single contact point for component maintenance. The operator remains responsible for ensuring that all maintenance is performed by maintenance organisations able to provide a release certificate in accordance with CAR M.501 (a) and in accordance with the approved standard.

- Aeroplane, engine and component maintenance:
  The operator may wish to have a maintenance contract with another operator of the same type of aircraft not approved under CAR 145. A typical case is that of a dry-leased aeroplane between operators, where the parties, for consistency or continuity reasons (especially for short term lease agreements) find it appropriate to keep the aeroplane under the current maintenance arrangement. Where this arrangement involves various CAR 145 approved contractors, it might be more manageable for the lessee operator to have a single contract with the lessor operator. Such an arrangement should not be understood as a transfer of responsibility to the lessor operator: the lessee operator, being the approved operator of the aircraft, remains responsible for the continuing airworthiness of the aeroplane in performing the CAR M.708 functions, and employing the CAR M.706 continuing airworthiness management group of persons and staff.

In essence, this does not alter the intent of CAR M.201 (h) in that it also requires that the operator has to establish a written maintenance contract acceptable to the GCAA of operator and, whatever type of acceptable arrangement is made, the operator is required to exercise the same level of control on contracted maintenance, particularly through the CAR M.706 (c) continuing airworthiness management group of persons and quality system as referred to in CAR M.712.

AMC CAR M.708 (b) (1) Continuing airworthiness management –unscheduled maintenance

The intent of this paragraph is that maintenance contracts are not necessary when the operator’s continuing airworthiness system, as approved by the GCAA, specifies that the relevant maintenance activity may be ordered through one time work orders. This includes for obvious reasons unscheduled line maintenance and may also include aeroplane component maintenance up to engines, so long as the GCAA considers that the maintenance is manageable through work orders, both in term of volume and complexity. It should be noted that this paragraph implies that even where base maintenance is ordered on a case-by-case basis, there should be a written maintenance contract.
AMC CAR M.709 Documentation

When using maintenance data provided by the customer, the continuing airworthiness management organisation is responsible for ensuring that this data is current. As a consequence, it should establish appropriate procedures or provisions in the contract with the customer.

The sentence “..., except when required by point CAR M.714”, means, in particular, the need to keep a copy of the customer data which was used to perform continuing airworthiness activities during the contract period.

“Baseline” maintenance programme: it is a maintenance programme developed for a particular aircraft type following, where applicable, the maintenance review board (MRB) report, the type certificate holder’s maintenance planning document (MPD), the relevant chapters of the maintenance manual or any other maintenance data containing information on scheduling.

“Generic” maintenance programme: it is a maintenance programme developed to cover a group of similar types of aircraft. These programmes should be based on the same type of instructions as the baseline maintenance programme. Examples of “generic” maintenance programmes could be Cessna 100 Series (covering Cessna 150, 172, 177, etc.).

“Baseline” and “generic” maintenance programmes are not applicable to a particular aircraft registration mark, but to an aircraft type or group of types, and should be available to the GCAA prior to the initial approval and prior to the extension of the scope of an existing organisation approval. The intent is that the GCAA is aware of the scope and complexity of tasks that will be managed before granting an organisation approval or change of approval.

After this initial approval, when an owner/operator is contracted, the baseline or generic maintenance programme, as applicable, may be used to establish the CAR M.302 aircraft maintenance programme, incorporating the additional maintenance tasks and indicating those which are not applicable to a particular aircraft registration mark. This may be achieved by adding an Annex to the baseline/generic maintenance programme for each aircraft registration, specifying which tasks are added and which are not applicable. This will result in an aircraft maintenance programme specific for each customer.

However, this does not mean that this adaptation must be performed for each contracted aircraft registration. The reason is that the customer may already have an approved aircraft maintenance programme, which in that case should be used by the continuing airworthiness management organisation to manage the continuing airworthiness of such aircraft.

Continuing airworthiness management organisations may seek authorisation for indirect approval in order to amend the aircraft maintenance programme mentioned above in accordance with CAR M.302(c). The indirect approval procedure should include provisions to notify to the GCAA that an aircraft maintenance programme specific for a customer has been created. The reason is that, according to CAR M.704 (a)9, for aircraft not involved in commercial air transport the Continuing Airworthiness Management Exposition (CAME) only needs to include the reference to the baseline/generic maintenance programme.
AMC CAR M.710 (a) Airworthiness review

1. A full documented review is a check of at least the following categories of documents:
   - registration papers
   - CAR M.305 aircraft continuing airworthiness record system
   - CAR M.306 operator’s technical log system
   - list of deferred defects, minimum equipment list and configuration deviation list if applicable
   - aircraft flight manual including aircraft configuration
   - aircraft Maintenance programme
   - maintenance Data
   - relevant work packages
   - AD status
   - modification and SB status
   - modification and repair approval sheets
   - list of service life limited component
   - relevant AW FORM 1 or equivalent
   - mass and balance report and equipment list
   - aircraft, engine and propeller TC Data Sheets

As a minimum, sample checks within each document category should be carried out.

2. The CAR M. Subpart G organisation should develop procedures for the airworthiness review staff to produce a compliance report that confirms the above have been reviewed and found in compliance with CAR M.

AMC CAR M.710 (b) and (c) Airworthiness review

1. The physical survey could require actions categorised as maintenance (e.g. operational tests, tests of emergency equipment, visual inspections requiring panel opening etc.). In this case, after the airworthiness review a release to service should be issued in accordance with CAR M.

When the airworthiness review staff are not appropriately qualified to issue a CAR M Subpart H or CAR 145 CRS as appropriate for the type in order to release such maintenance, CAR M.710 (b) requires them to be assisted by such qualified personnel. However, the function of such qualified personnel is limited to perform and release the maintenance actions requested by the airworthiness review staff, it not being their function to perform the physical survey of the aircraft. As stated in CAR M.710(b), the airworthiness review staff shall carry out the physical survey of the aircraft, and this survey includes the verification that no inconsistencies can be found between the aircraft and the documented review of records.

This means that the airworthiness review staff who are going to sign the airworthiness review certificate or the recommendation should be the one performing both the documented review and the physical survey of the aircraft, it not being the intent of the rule to delegate the survey
to qualified personnel who are not airworthiness review staff. Furthermore, the provision of CAR M.710(d) allowing a 90 days anticipation for the physical survey provides enough flexibility to ensure that the airworthiness review staff are present.

2. The physical survey may include verifications to be carried out during flight.

3. The CAR M. Subpart G organisation should develop procedures for the airworthiness review staff to produce a compliance report that confirms the physical survey has been carried out and found satisfactory.

4. To ensure compliance the physical survey may include relevant sample checks of items.

**AMC CAR M.710(d) Airworthiness review**

“Without loss of continuity of the airworthiness review pattern” means that the new expiration date is set up one year after the previous expiration date. As a consequence, when the airworthiness review is anticipated, the validity or the airworthiness review certificate is longer than one year (up to 90 days longer).

**AMC CAR M.710 (e) Airworthiness review**

A copy of both physical survey and document review compliance reports stated above should be sent to the GCAA together with any recommendation issued.

**AMC CAR M.711 (b) Privileges of the organisation**

An organisation may be approved for the privileges of CAR M.711(a) only, without the privilege to carry out airworthiness reviews. This can be contracted to another appropriately approved organisation. In such a case, it is not mandatory that the contracted organisation is linked to an AOC holder, being possible to contract an appropriately approved independent continuing airworthiness management organisation which is approved for the same aircraft type.

In order to be approved for the privileges of CAR M.711(b) for a particular aircraft type, it is necessary to be approved for the privileges of CAR M.711(a) for that aircraft type. As a consequence, the normal situation in this case is that the organisation will be performing continuing airworthiness management tasks and performing airworthiness reviews on every aircraft type contained in the approval certificate.

Nevertheless, this does not necessarily mean that the organisation needs to be currently managing an aircraft type in order to be able to perform airworthiness reviews on that aircraft type. The organisation may be performing only airworthiness reviews on an aircraft type without having any customer under contract for that type.

Furthermore, this situation should not necessarily lead to the removal of the aircraft type from the organisation approval. As a matter of fact, since in most cases the airworthiness review staff are not involved in continuing airworthiness management activities, it cannot be argued that these airworthiness review staff are going to lose their skills just because the organisation is not managing a particular aircraft type. The important issue in relation to maintaining a particular aircraft type in the organisation approval is whether the organisation continuously fulfils all the Subpart G requirements (facilities, documentation, qualified personnel, quality system, etc.) required for initial approval.
AMC CAR M.712 (a) Quality system

1. Procedures should be held current such that they reflect best practice within the organisation. It is the responsibility of all employees to report any difficulties with the procedures via their organisation’s internal occurrence reporting mechanisms.

2. All procedures, and changes to the procedures, should be verified and validated before use where practicable.

3. The feedback part of the system should address who is required to rectify any non-compliance in each particular case and the procedure to be followed if rectification is not completed within appropriate timescales. The procedure should lead to the accountable manager specified in CAR M.706.

4. The independent quality audit reports referenced in AMC CAR M.712 (b) should be sent to the relevant department for rectification action giving target rectification dates. Rectification dates should be discussed with such department before the quality department or nominated quality auditor confirms such dates in the report. The relevant department is required to rectify findings and inform the quality manager or the quality auditor of such rectification.

5. The accountable manager should hold regular meetings with staff to check progress on rectification except that in the large organisations such meetings may be delegated on a day to day basis to the quality manager subject to the accountable manager meeting at least twice per year with the senior staff involved to review the overall performance and receiving at least a half yearly summary report on findings of non-compliance.

AMC CAR M.712 (b) Quality System

1. The primary objectives of the quality system are to enable the CAR M. Subpart G organisation to ensure airworthy aircraft and to remain in compliance with the CAR M requirements.

2. An essential element of the quality system is the independent audit.

3. The independent audit is an objective process of routine sample checks of all aspects of the CAR M. Subpart G organisation’s ability to carry out continuing airworthiness management to the required standards. It includes some product sampling as this is the end result of the process.

4. The independent audit represents an objective overview of the complete continuing airworthiness management related activities. It is intended to complement the CAR M.902 requirement for an airworthiness review to be satisfied that all aircraft managed by the organisation remain airworthy.

5. The independent audit should ensure that all aspects of CAR M. Subpart G compliance are checked annually, including all the sub-contracted activities, and may be carried out as a complete single exercise or subdivided over the year period in accordance with a scheduled plan. The independent audit does not require each procedure to be checked against each product line when it can be shown that the particular procedure is common to more than one product line and the procedure has been checked every year without resultant findings. Where findings have been identified, the particular procedure should be rechecked against other product lines until the findings have been rectified after which the independent audit procedure may revert back to year for the particular procedure.
Provided that there are no safety related findings, the audit time periods specified in this AMC may be increased by up to 100% subject to agreement by the GCAA.

6. Where the organisation has more than one location approved the quality system should describe how these are integrated into the system and include a plan to audit each location every year.

7. A report should be raised each time an audit is carried out describing what was checked and the resulting findings against applicable requirements, procedures and products.

8. The independence of the audit should be established by always ensuring that audits are carried out by personnel not responsible for the function, procedure or products being checked.

9. An organisation should establish a quality plan acceptable to the GCAA of approval to show when and how often the activities as required by CAR M. Subpart G will be audited.

**AMC CAR M.712 (f) Quality system**

A small organisation is considered to be an organisation with up to 5 full-time staff (including all CAR M.706 personnel) or equivalent proportional number when using part-time staff. The complexity of the organisation, combination of aircraft and aircraft types, the utilisation of the aircraft and the number of approved locations of the organisations should also be considered before replacing the quality system by an organisational review.

Appendix XIII should be used to manage the organisational reviews.

The following activities should not be considered as subcontracting and, as a consequence, they may be performed without a Quality System, although they need to be described in the continuing airworthiness management exposition and be approved by the GCAA:

- Subscription to a technical publisher that provides maintenance data (Aircraft Maintenance Manuals, Illustrated Parts Catalogues, Service Bulletins, etc.), which may be applicable to a wide range of aircraft. These data may include maintenance schedules recommended by different manufacturers that can be afterwards used by the continuing airworthiness management organisation in order to produce customised maintenance programmes.

- Contracting the use of a software tool for the management of continuing airworthiness data and records, under the following conditions (in addition to CAR M.714(d) and (e)):
  - If the tool is used by several organisations, each organisation should have access to its own data only.
  - Introduction of data can only be performed by personnel of the continuing airworthiness management organisation.
  - The data can be retrieved at any time

**AMC CAR M.713 Changes to the approved continuing airworthiness organisation**

1. This paragraph covers scheduled changes to the continuing airworthiness organisation’s approval. Whilst the requirements relating to air operator certificates, including their issue, variation and continued validity, are prescribed in the appropriate regulation, operators should be aware this paragraph is included in CAR M and may affect continued acceptance of the continuing airworthiness management.
2. The primary purpose of this paragraph is to enable the continuing airworthiness organisation to remain approved if agreed by the GCAA during negotiations about any of the specified changes. Without this paragraph the approval would automatically be suspended in all cases.

**AMC CAR M.714 Record-keeping**

1. The CAR M. Subpart G organisation should ensure that it always receives a complete CRS from the approved maintenance organisation such that the required records can be retained. The system to keep the continuing airworthiness records should be described in the organisation continuing airworthiness management exposition.

2. When an organisation arranges for the relevant maintenance organisation to retain copies of the continuing airworthiness records on its behalf, it will nevertheless continue to be responsible for the records under CAR M.714 relating to the preservation of records. If it ceases to be the organisation managing the aircraft, it also remains responsible for transferring the records to any other person or organisation managing continuing airworthiness of the aircraft.

3. Keeping continuing airworthiness records in a form acceptable to the GCAA means in paper form or on a computer database or a combination of both methods. Records stored in microfilm or optical disc form are also acceptable. The record should remain legible throughout the required retention period.

4. Paper systems should use robust material which can withstand normal handling and filing.

5. Computer systems should have at least one backup system which should be updated within 24 hours of any new entry. Each terminal is required to contain programme safeguards against the ability of unauthorised personnel to alter the database.

6. Microfilming or optical storage of continuing airworthiness records may be carried out at any time. The records should be as legible as the original record and remain so for the required retention period.

**AMC CAR M. 801 (b) Aircraft certificate of release to service**

A certificate of release to service is necessary before flight, at the completion of any defect rectification, whilst the aircraft operates a flight between scheduled maintenance checks.

**AMC CAR M.801 (f) Aircraft certificate of release to service**

1. The aircraft certificate of release to service should contain the following statement:
   (a) ‘Certifies that the work specified except as otherwise specified was carried out in accordance with CAR M and in respect to that work the aircraft is considered ready for release to service’.
   (b) Reserved

2. The certificate of release to service should relate to the task specified in the manufacturer's or operator's instruction or the aircraft maintenance programme which itself may cross-refer to a manufacturer's/operator's instruction in a maintenance manual, service bulletin etc.
3. The date such maintenance was carried out should include when the maintenance took place relative to any life or overhaul limitation in terms of date/flying hours/cycles/landings etc., as appropriate.

4. When extensive maintenance has been carried out, it is acceptable for the certificate of release to service to summarise the maintenance so long as there is a unique cross-reference to the work-pack containing full details of maintenance carried out. Dimensional information should be retained in the work-pack record.

5. The person issuing the certificate of release to service should use his normal signature except in the case where a computer release to service system is used. In this latter case the GCAA will need to be satisfied that only the particular person can electronically issue the release to service. One such method of compliance is the use of a magnetic or optical personal card in conjunction with a personal identity number (PIN) known only to the individual, which is keyed into the computer. A certification stamp is optional.

6. At the completion of all maintenance, owners, certifying staff, operators and maintenance organisations should ensure they have a clear, concise, legible record of the work performed.

7. Reserved

AMC CAR M.801 (g) Aircraft certificate of release to service

1. Being unable to establish full compliance with sub-paragraph CAR M.801 (b) means that the maintenance required by the CAR M. Subpart G organisation could not be completed due either to running out of available aircraft maintenance downtime for the scheduled check or by virtue of the condition of the aircraft requiring additional maintenance downtime.

2. The CAR M. Subpart G organisation is responsible for ensuring that all required maintenance has been carried out before flight. Therefore a CAR M. Subpart G organisation should be informed and agree to the deferment of full compliance with CAR M. 801(b). The certificate of release to service may then be issued subject to details of the deferment, including the CAR M. Subpart G organisation authorisation, being endorsed on the certificate.

3. If a certificate of release to service is issued with incomplete maintenance a record should be kept stating what action the mechanic, supervisor and certifying staff should take to bring the matter to the attention of the relevant CAR M. Subpart G organisation so that the issue may be discussed and resolved with the CAR M. Subpart G organisation.

AMC CAR M.801 (h) Aircraft certificate of release to service

‘Endangers flight safety’ means any instance where safe operation could not be assured or which could lead to an unsafe condition. It typically includes, but is not limited to, significant cracking, deformation, corrosion or failure of primary structure, any evidence of burning, electrical arcing, significant hydraulic fluid or fuel leakage and any emergency system or total system failure. An airworthiness directive overdue for compliance is also considered a hazard to flight safety.
AMC CAR M.802 Component certificate of release to service

When an approved organisation maintains an aircraft component for use by the organisation an AW FORM 1 may not be necessary depending upon the organisation’s internal release procedures, however all the information normally required for the AW FORM 1 should be adequately detailed in the certificate of release to service.

AMC CAR M.901 Aircraft airworthiness review

In order to ensure the validity of the aircraft airworthiness certificate, CAR M.901 requires performing periodically an airworthiness review of the aircraft and its continuing airworthiness records, which results in the issuance of an airworthiness review certificate valid for one year.

Any document or certificate issued in accordance with the GCAA requirements and valid on the date of entry into force of CAR M, Subpart I, is considered to attest the validity of the aircraft airworthiness certificate until its expiration. In addition, any document or certificate that has been issued prior to entry into force is considered valid. The GCAA shall accept one time renewal of such a document provided that the renewal is carried out prior to 1 July 2012, whichever comes first. As a consequence, it is not necessarily required for the GCAA to re-issue all national airworthiness review certificates on the date of entry into force of CAR M, Subpart-I, being possible to wait until the limit mentioned above.

AMC CAR M.901 (a) Aircraft airworthiness review

AWF-ARC-15a is issued by the GCAA while AWF-ARC-15b is issued by a CAR M. Subpart G organisation holding Subpart I privileges.

AMC CAR M.901 (b) Aircraft airworthiness review

Reserved

AMC CAR M.901 (c) 2, (e) 2 and (f) Aircraft airworthiness review

Reserved

AMC CAR M.901 (d) Aircraft airworthiness review

The recommendation sent by a continuing airworthiness management organisation (CAMO) to the GCAA should be in English.

The recommendation sent to the GCAA should contain at least the items described below.

(a) General information
   - CAR M. Subpart G organisation information
   - owner/lessee information
   - date and place the document review and the aircraft survey were carried out
   - period and place the aircraft can be seen if required by the GCAA.
(b) Aircraft information
   - registration
   - type
   - manufacturer
   - serial number
   - flight manual reference
   - weight and centre of gravity data
   - maintenance programme reference

(c) Documents accompanying the recommendation
   - copy of registration papers
   - copy of the owners request for a new airworthiness review certificate

(d) Aircraft status
   - aircraft total time and cycles
   - list of persons or organisations having carried out continuing airworthiness activities including maintenance tasks on the aircraft and its components since the last airworthiness review certificate

(e) Aircraft survey
   - a precise list of the areas of the aircraft that were surveyed and their status

(f) Findings
   - a list of all the findings made during the airworthiness review with the corrective action carried out

(g) Statement

   A statement signed by the airworthiness review staff recommending the issue of an airworthiness review certificate.

   The statement should confirm that the aircraft in its current configuration complies with the following:
   - airworthiness directives up to the latest published issue, and;
   - type certificate datasheet, and;
   - maintenance programme, and;
   - component service life limitations, and;
   - the valid weight and centre of gravity schedule reflecting the current configuration of the aircraft, and;
   - CAR 21 for all modifications and repairs, and;
   - the current flight manual including supplements, and;
   - operational requirements.
The above items should clearly state the exact reference of the data used in establishing compliance; for instance the number and issue of the type certificate data sheet used should be stated.

The statement should also confirm that all of the above is properly entered and certified in the aircraft continuing airworthiness record system and/or in the operator’s technical log.

**AMC CAR M.901 (j) Aircraft airworthiness review**

Suitable accommodation should include:

(a) an office with normal office equipment such as desks, telephones, photocopying machines etc. whereby the continuing airworthiness records can be reviewed.

(b) a hangar when needed for the physical survey.

The support of personnel appropriately qualified to issue a CAR M Subpart H or CAR 145 CRS as appropriate for the type is necessary when the GCAA’s airworthiness review staff is not appropriately qualified.

**AMC CAR M.904 (a)1 Airworthiness reviews of aircraft imported into the UAE**

In order to allow for the participation of GCAA personnel, the applicant should inform the GCAA at least 30 working days in advance of the time and location of the airworthiness review.

**AMC CAR M.904 (a)2 Airworthiness reviews of aircraft imported into the UAE**

1. When performing an airworthiness review of aircraft imported into the UAE the aircraft and the relevant records should be reviewed to determine the work to be undertaken to establish the airworthiness of the aircraft.

2. In determining the work to be undertaken during the airworthiness review on the aircraft, the following should be taken into consideration:

   (a) the information from third country authorities such as export certificates, primary authority information; and,

   (b) the information on aircraft maintenance history such as continuing airworthiness records, aircraft, engine, propeller, rotor and life limited part log books or cards as appropriate, tech log / flight log / cabin log, list of deferred defects, total flight times and cycles, times and cycles since last maintenance, accident history, former maintenance schedule, former AD compliance status; and,

   (c) the information on aircraft such as aircraft, engine and propeller type certificate datasheets, noise and emission certificate data sheets, flight manual and supplements; and,

   (d) the aircraft continuing airworthiness status such as the aircraft and component AD status, the SB status, the maintenance status, the status of all service life limited components, weight and centre of gravity schedule including equipment list; and,

   (e) the modification and repair status of the aircraft detailing elements such as owner/operator designed modifications and repairs, STCs, and,
(f) the aircraft cabin configuration such as emergency equipment fitted, cockpit configuration, placards, instrument limitations, cabin layout; and,

(g) the maintenance needed for import, such as embodiment of modifications needed to comply with the GCAA’s accepted type certificate, bridging check to comply with the new maintenance programme; and,

(h) the avionics such as, but not limited to, radio and navigation equipment, instrument flight rules (IFR) equipment, digital flight data recorder (DFDR) / cockpit voice recorder (CVR) test, ELT 406 MHz code and identification; and,

(i) the compass compensation; and,

(j) special operating rules such as extended twin-engine operations (ETOPS)/ long range operations (LROPS), reduced vertical separation minima (RVSM), MNPS, all weather operations (AWOPS), RNAV; and,

(k) the aircraft survey including verification of conformity with the flight manual and the datasheet, presence of fire proof identification plates, conformity of markings including registration, presence and serviceability of emergency equipment, internal and external lighting systems, and,

(l) check flight including check of control system / cockpit ground check / engine run up.

3. Reserved

**AMC CAR M.904 (b) Airworthiness review of aircraft imported into the UAE**

The recommendation sent to the GCAA should contain at least the items described below.

(a) All the information set forth by AMC CAR M. 901(d)

(b) Aircraft information

- aircraft assigned registration
- state of manufacturer
- previous registration
- export certificate number
- TC and TC data sheet numbers
- noise and emissions TC and TC data sheet numbers
- comparison of prior maintenance programme with the proposed new maintenance programme.

(c) Documents accompanying the recommendation

- copy of the application, and;
- original export certificate, and;
- copy of the approvals of the flight manual and its supplements, and;
- list of ADs incorporated up to the latest published issue, and;
- proposed new maintenance programme, and;
• status of all service life limited components, and;
• the valid weight and centre of gravity schedule reflecting the current configuration of the aircraft, and;
• CAR 21 approval reference for all modifications and repairs.

(d) Maintenance
• a copy of the work packages requested by the subpart G organisation including details of any bridging check to ensure all the necessary maintenance has been carried out.

(e) Aircraft check flight
• a copy of the check flight report
APPENDICES TO AMC’S AND GM’s
APPENDIX I to AMC CAR M.302
Content of the Maintenance Programme

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 CAR M. Subpart G approved organisation 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 CAR M. Subpart G approved organisation 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 GCAA.

1.1.8 Provision to record the date and reference of approved amendments incorporated in the 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 GCAA 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 the CAR M.

1.1.20 Each maintenance task quoted should be defined in a definition section of the programme.

1.1.21 Operators and continuing airworthiness management organisations are required to develop procedures to comply with maintenance requirements for cockpit voice recorders (CVR) and (digital) flight data recorders FDR(DFDR). Instructions may include requirements published by one or more of the equipment manufacturers, TC/STC holders and the GCAA. In order to allow detection of dormant failures performing the following maintenance actions are required to be included in the maintenance programme.

(a) For CVR: At intervals not exceeding 6 months, inspect the installation. Confirm by means of the CVR controller monitor jack, proper recording on each audio channel from area microphone(s), receiver audio, side tone, interphone, public address (if recorded) and boom microphone (including 'hot mike' function, i.e. interphone OFF). Confirm proper function of the inhibit logic for the bulk erase.

(b) For FDR(DFDR): As part of each Pre-Flight Check; carry out an operational check for no-failure. Every 3,000 flight hours or every 12 months, whichever occurs first, download and analyse at least a whole flight recording to check that all mandatory parameters are active and are of acceptable quality. This recording should be preserved, at least until replaced by a more recent one. The purpose of this is to ensure that, in the event of an accident/incident, air accident investigators have access to a readout from the flight recording.
system that is representative of the actual aircraft conditions prior to the event.

1.1.22 Annual inspections should be included in the AMP to be carried out as follows for CVR and FDR(DFDR):

(a) The read-out of the recorded data from the CVR and FDR(DFDR) should ensure that the recorder operates correctly for the nominal duration of the recording in accordance with CAR-OPS 1.700 or CAR-OPS 3.700.

(b) The analysis of the FDR(DFDR) should evaluate the quality of the recorded data to determine if the bit error rate is within acceptable limits and to determine the nature and distribution of the errors.

(c) A complete flight from the FDR(DFDR) should be examined in engineering units to evaluate the validity of all recorded parameters. Particular attention should be given to parameters from sensors dedicated to the FDR(DFDR). Parameters taken from the aircraft’s electrical bus system need not be checked if their serviceability can be detected by other aircraft systems.

(d) The read-out facility should have the necessary software to accurately convert the recorded values to engineering units and to determine the status of discrete signals.

(e) An annual examination of the recorded signal on the CVR should be carried out by re-play of the CVR recording. While installed in the aircraft, the CVR should record test signals from each aircraft source and from relevant external sources to ensure that all required signals meet intelligibility standards, and

(f) Where practicable, during the annual examination (i.e. AMP task), a sample of in-flight recordings of the CVR should be examined for evidence that the intelligibility of the signal is acceptable.

1.1.23 Calibration of the FDR(DFDR) system, unless otherwise addressed by the aircraft Type Certificate Holder or OEM, should be included in the AMP as follows:

(a) The FDR(DFDR) system should be re-calibrated at least every five years to determine any discrepancies in the engineering conversion routines for the mandatory parameters (CAR-OPS 1.715 or CAR-OPS 3.715), and to ensure that parameters are being recorded within the calibration tolerances, and

(b) When the parameters of altitude and airspeed are provided by sensors that are dedicated to the FDR(DFDR) system, there should be a re-calibration performed as recommended by the sensor manufacturer, or at least every two years.

1.1.24 When developing the aircraft maintenance programme, operators should consider the instructions for continued airworthiness provided by the TC or STC Holder for the CVR/FDR(DFDR) and the ICAO guidelines stated in ICAO Annex 6 ATT D-2 as a minimum. CVR and FDR(DFDR) malfunction occurrences should be reported to the GCAA through the ROSI system. In addition procedures for the analysis of CVR/FDR(DFDR) recordings, including arrangements with any sub-contracted organisation when applicable, should be reflected in the organisation...
CAME procedures. Specific procedures for the analysis of FDR(DFDR) recordings should include:

(a) Arrangements for the accomplishment of a representative flight, and provision of the recorded parameters, for assessment of the recording.

(b) Method of transmission of the data to a suitable readout facility.

(c) Where the analysis of the readout results will be carried out and how the results will be presented to the operator.

(d) The method of recording a satisfactory readout in the continuing airworthiness records.

(e) The procedures to be used to raise any defects noted during the readout check and to control their rectification in accordance with MEL requirements.

1.1.25 Operators and continuing airworthiness management organisations are required to develop procedures to comply with maintenance requirements of the Emergency Locator Transmitter (ELT), including fixed, portable and automatically deployable ELT devices. In order to allow detection of dormant failures performing the following minimum maintenance actions are required to be included in the maintenance programme. At all times the manufacturer’s instructions for continuing airworthiness must be followed.

(a) ELTs installed in aircraft are subject to extreme environmental conditions which may cause corrosion to develop in circuit boards and battery compartments. As a minimum, a corrosion inspection shall be performed at intervals not to exceed 12 months, or during each required battery replacement and performance test, whichever occurs first.

(b) Performance and operational testing of the installed ELT system should be performed at least annually, in accordance with the ELT manufacturers approved technical data. International guidelines on the timing of such tests, if carried out in-situ, should also be followed.

2 Programme basis

2.1 An owner or an CAR M. Subpart G approved organisation’s 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 CAR M. Subpart G approved organisation 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 CAR M. Subpart G approved organisation 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 operator to make comparisons with maintenance programmes previously approved. It should not be assumed that a programme approved for one owner or the CAR M. Subpart G approved organisation would automatically be approved for another.

Evaluation should be made of the aircraft/fleet utilisation, landing rate, equipment fit and, in particular, the experience of the owner or the CAR M. Subpart G approved organisation when assessing an existing programme.

Where the GCAA is not satisfied that the proposed maintenance programme can be used as is, the GCAA 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 CAR M. Subpart G approved organisation, to reflect changes in the TC holder’s recommendations, modifications, service experience, or as required by the GCAA.

4 Permitted variations to maintenance periods

The owner or the CAR M. Subpart G approved organisation may only vary the periods prescribed by the programme with the approval of the GCAA or through a procedure developed in the maintenance programme and approved by the GCAA.

5 Periodic review of maintenance programme contents

5.1 The owner or the CAR M. Subpart G approved organisation’s 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 CAR M. Subpart G approved organisation 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 large aircraft according to CAR 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 CAR M. Subpart G organisation 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 CAR M. Subpart G organisation/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 CAR M. Subpart G organisation's fleet size.

6.2.3 Complex reliability programmes could be inappropriate for a small fleet. It is recommended that such CAR M. Subpart G organisations 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 An CAR M. Subpart G organisation 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 CAR M. Subpart G organisation's 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 CAR M. Subpart G organisation is encouraged to establish contact and make comparisons with other CAR M. Subpart G organisations 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 CAR M. Subpart G organisation(s). Paragraph 6.6 of this paragraph specifies under which conditions it is acceptable that CAR M. Subpart G organisations share reliability data.

6.2.7 Notwithstanding the above there are cases where the CAR M. Subpart G organisation will be unable to pool data with other CAR M. Subpart G organisation, e.g. at the introduction to service of a new type. In that case the GCAA should impose additional restrictions on the MRB/MPD tasks intervals (e.g. no variations or only minor evolution are possible, and with GCAA 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 CAR M. Subpart G organisation’s maintenance and reliability programmes, the GCAA is expected to ensure that the organisation which runs the programme (it may be the CAR M. Subpart G organisation, or an CAR 145 organisation under contract) hires sufficiently qualified personnel with appropriate engineering experience and understanding of reliability concept (see AMC CAR M.706)

6.3.2 It follows that failure to provide appropriately qualified personnel for the reliability programme may lead the GCAA to reject the approval of the reliability programme and therefore the aircraft maintenance programme.

6.4 Contracted maintenance

6.4.1 Whereas CAR M.302 specifies that, the aircraft maintenance programme -which includes the associated reliability programme-, should be managed and presented by the CAR M. Subpart G organisation to the GCAA, it is understood that the CAR M. Subpart G organisation may delegate certain functions to the CAR 145 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 CAR M. Subpart G organisation.

6.4.3 Notwithstanding the above decision to implement a corrective action (or the decision to request from the GCAA the approval to implement a corrective action) remains the CAR M. Subpart G organisation’s 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.

6.4.4 The arrangement between the CAR M. Subpart G organisation and the CAR 145 organisation should be specified in the maintenance contract (see appendix 11) and the relevant CAME, and MOE 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 CAR M. Subpart G organisation, to an integrated maintenance management programme for a big CAR M. Subpart G organisation. 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, CAR 145 and CAR 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.

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 CAR 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 CAR M. Subpart G organisation relies upon contracted maintenance and/or overhaul facilities as an information input to the programme, the arrangements for availability and continuity of such 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 GCAA’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 Organisational 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 GCAA should be stated. This information should be contained in the CAME or MOE as appropriate.

6.5.9 Presentation of information to the GCAA.

The following information should be submitted to the GCAA 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 GCAA 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.

6.5.10.2Although not exclusive, the following list gives guidance on the criteria to be taken into account during the review.

(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 GCRA may authorise the CAR M. Subpart G organisation to implement in the maintenance programme changes arising from the reliability programme results prior to their formal approval by the GCRA 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 Owner/operator 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 CAR M. Subpart G organisations of the same type of aircraft. For the analysis to be valid, the aircraft concerned, mode of operation, and maintenance procedures applied must be substantially the same: variations in utilisation between two CAR M. Subpart G organisations 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 GCRA 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 GCRA, so as to allow the owner/operator to operate the aircraft under the same programme during the lease agreement effectivity.

6.6.4 Changes by any one of the CAR M. Subpart G organisation to the above, requires assessment in order that the pooling benefits can be maintained. Where a CAR M. Subpart G organisation wishes to pool data in this way, the approval of the GCRA should be sought prior to any formal agreement being signed between CAR M. Subpart G organisations.

6.6.5 Whereas this paragraph 6.6 is intended to address the pooling of data directly between CAR M. Subpart G organisations, it is acceptable that the CAR M. Subpart G organisation participates in a reliability programme managed by the aircraft manufacturer, when the GCRA is satisfied that the manufacturer manages a reliability programme which complies with the intent of this paragraph.
SUB-CONTRACTED OPERATOR’S CONTINUING AIRWORTHINESS MANAGEMENT TASKS

1. To actively control the standards of the sub-contracted organisation the operator should employ a person or group of persons who are trained and competent in the disciplines associated with CAR M. Subpart G. As such they are responsible for determining what maintenance is required, when it has to be performed and by whom and to what standard, in order to ensure the continued airworthiness of the aircraft being operated.

1.2 The operator should conduct a pre-contract audit to establish that the sub-contracted organisation can achieve the standards required by CAR M. Subpart G in connection with those activities to be sub-contracted.

1.3 The operator should ensure that the sub-contracted organisation has sufficient qualified personnel who are trained and competent in the functions to be sub-contracted. In assessing the adequacy of personnel resources the operator should consider the particular needs of those activities that are to be sub-contracted, while taking into account the sub-contracted organisations existing commitments.

1.4 To be appropriately approved to contract out continuing airworthiness management tasks the operator should have procedures for the management control of these arrangements. The operator's continuing airworthiness management exposition should contain relevant procedures to reflect his control of those arrangements made with the subcontracted organisation.

1.5 Sub-contracted continuing airworthiness management tasks should be addressed in a contract between the operator and the sub-contracted organisation. The contract should also specify that the sub-contracted organisation is responsible for informing the operator who is in turn responsible for notifying the respective Authority, of any subsequent changes that affect their ability to support the contract.

1.6 Organisations providing continuing airworthiness management tasks to support commercial air transport operators should use procedures which set out the manner by which the organisation fulfils its responsibility to those sub-contracted activities. Such procedures may be developed by either the sub-contracted organisation or the operator.

1.7 Where the sub-contracted organisation develops its own procedures these should be compatible with the operator's continuing airworthiness management exposition and the terms of the contract. These should be accepted by the GCAA as extended procedures of the operator and as such should be cross-referenced from the continuing airworthiness management exposition. One current copy of the sub-contracted organisation's relevant procedures should be kept by the operator and should be accessible to the GCAA where needed.

Note: Should any conflict arise between the sub-contracted organisation's procedures and those of the operator then the policy and procedures of the continuing airworthiness management exposition will prevail.

1.8 The contract should also specify that the sub-contracted organisation's procedures may only be amended with the agreement of the operator. The operator should ensure that
these amendments are compatible with their continuing airworthiness management exposition and in compliance with CAR M. Subpart G.

The operator should nominate who will be responsible for continued monitoring and acceptance of the sub-contracted organisation procedures and their amendments. The controls used to fulfil this function should be clearly set out in the amendment section of the continuing airworthiness management exposition detailing the level of operator involvement.

1.9 Whenever any elements of continuing airworthiness management tasks are sub-contracted the operator’s continuing airworthiness management personnel should have access to all relevant data in order to fulfil their responsibilities.

Note: The operator retains authority to override where necessary for the continuing airworthiness of their aircraft, any recommendation of the sub-contracted organisation.

1.10 The operator should ensure that the sub-contracted organisation continues to have qualified technical expertise and sufficient resources to perform the subcontracted tasks while in compliance with the relevant procedures. Failure to do so may invalidate the approval of the operators continuing airworthiness management system.

1.11 The contract should provide for GCAA monitoring.

1.12 The contract should address the respective responsibilities to ensure that any findings arising from the GCAA monitoring will be closed to the satisfaction of the GCAA.

2. ACCOMPLISHMENT

This paragraph describes topics, which may be applicable in such a sub-contract arrangements.

2.1 Scope of work

The type of aircraft and their registrations, engine types and/or component subject to the continuing airworthiness management tasks contract should be specified.

2.2 Maintenance programme development and amendment

The operator may sub-contract the preparation of the draft maintenance programme and any subsequent amendments. However, the operator remains responsible for assessing that the draft proposals meet his needs and obtaining GCAA approval; the relevant procedures should specify these responsibilities. The contract should also stipulate that any data necessary to substantiate the approval of the initial programme or an amendment to this programme should be provided for operator agreement and/or GCAA review upon request.

2.3 Maintenance programme effectiveness and reliability

The operator should have in place a system to monitor and assess the effectiveness of the maintenance programme based on maintenance and operational experience. The collection of data and initial assessment may be made by the sub-contracted organisation; the required actions are to be endorsed by the operator.

Where reliability monitoring is used to establish maintenance programme effectiveness, this may be provided by the sub-contracted organisation and should be specified in the relevant procedures. Reference should be made to the operators approved maintenance programme and reliability programme. Participation of the operator’s personnel in reliability meetings with the sub-contracted organisation should also be specified.
In providing reliability data the sub-contracted organisation is limited to working with primary data/documents provided by the operator or data provided by the operators contracted maintenance organisation(s) from which the reports are derived. The pooling of reliability data is permitted if accepted by the GCAA.

2.4 Permitted variations to maintenance programme.

The reasons and justification for any proposed variation to scheduled maintenance may be prepared by the sub-contracted organisation. Acceptance of the proposed variation should be granted by the operator. The means by which the operator acceptance is given should be specified in the relevant procedures. When outside the limits set out in the maintenance programme, the operator is required to obtain approval by the GCAA.

2.5 Scheduled maintenance

Where the sub-contracted organisation plans and defines maintenance checks or inspections in accordance with the approved maintenance programme, the required liaison with the operator, including feedback should be defined.

The planning control and documentation should be specified in the appropriate supporting procedures. These procedures should typically set out the operator's level of involvement in each type of check. This will normally involve the operator assessing and agreeing to a work specification on a case by case for base maintenance checks. For routine line maintenance checks this may be controlled on a day-to-day basis by the sub-contracted organisation subject to appropriate liaison and operator controls to ensure timely compliance. This typically may include, but is not necessarily limited to:

- Applicable work package, including job cards,
- Scheduled component removal list,
- ADs to be incorporated,
- Modifications to be incorporated

The associated procedures should ensure that the operator is advised in a timely manner on the accomplishment of such tasks.

2.6 Quality monitoring

The operator's quality system should monitor the adequacy of the sub-contracted continuing airworthiness management task performance for compliance with the contract and CAR M. Subpart G. The terms of the contract should therefore include a provision allowing the operator to perform a quality surveillance (including audits) upon the sub-contracted organisation. The aim of the surveillance is primarily to investigate and judge the effectiveness of those sub-contracted activities and thereby to ensure compliance with CAR M. Subpart G and the contract. Audit reports may be subject to review when requested by the GCAA.

2.7 Access by the GCAA

The contract should specify that the sub-contracted organisation should always grant access to the GCAA.

2.8 Maintenance data

The maintenance data used for the purpose of the contract should be specified, together with those responsible for providing such documentation and the Authority responsible
for the acceptance/approval of such data when applicable. The operator should ensure such data including revisions is readily available to the operator's continuing airworthiness management personnel and those in the sub-contracted organisation who may be required to assess such data. The operator should establish a 'fast track' means of ensuring that urgent data is transmitted to the sub-contractor in a timely manner. Maintenance data may include, but is not necessarily limited to:

- Maintenance programme,
- ADs,
  - Service Bulletins,
  - Major repairs/modification data,
  - Aircraft Maintenance Manual,
  - Engine overhaul manual,
  - Aircraft IPC,
  - Wiring diagrams,
  - Trouble shooting manual,

2.9 Airworthiness directives

While the various aspects of AD assessment, planning and follow-up may be accomplished by the sub-contracted organisation, embodiment is performed by a CAR 145 maintenance organisation. The operator is responsible for ensuring timely embodiment of applicable ADs and is to be provided with notification of compliance. It therefore follows that the operator should have clear policies and procedures on AD embodiment supported by defined procedures which will ensure that the operator agrees to the proposed means of compliance.

The relevant procedures should specify:

- What information (e.g. AD publications, continuing airworthiness records, flight hours/cycles, etc.) the sub-contracted organisation needs from the operator.
- What information (e.g. AD planning listing, detailed engineering order, etc) the operator needs from the sub-contracted organisation in order to ensure timely compliance with ADs.

To fulfill their above responsibility, operators should ensure that they are in receipt of current mandatory continued airworthiness information for the aircraft and equipment that they operate.

2.10 Service bulletin/modifications

The sub-contracted organisation may be required to review and make recommendations on embodiment of an SB and other associated non-mandatory material based on a clear operator policy. This should be specified in the contract.

2.11 Service life limit controls and component control/removal forecast.

Where the sub-contracted organisation performs planning activities, it should be specified that the organisation should be in receipt of the current flight cycles; flight hours; landings and/or calendar controlled details as applicable, at a frequency to be specified in the contract. The frequency should be such that it allows the organisation to properly perform
the sub-contracted planning functions. It therefore follows that there will need to be adequate liaison between the operator, his CAR 145 maintenance organisation(s) and the sub-contracted organisation. Additionally the contract should specify how the operator will be in possession of all current flight cycles, flight hours, etc. in order that the operator may assure the timely accomplishment of the required maintenance.

2.12 Engine health monitoring

If the operator sub-contracts the on wing engine health monitoring, the sub-contracted organisation should be in receipt of all the relevant information to perform this task, including any parameter reading deemed necessary to be supplied by the operator for this control. The contract should also specify what kind of feedback information (such as engine limitation, appropriate technical advice, etc.) the organisation should provide to the operator.

2.13 Defect control

Where the operator has sub-contracted the day-to-day control of technical log deferred defects this should be specified in the contract and should be adequately described in the appropriate procedures. The operator’s MEL/CDL provides the basis for establishing which defects may be deferred and associated limits. The procedures should also define the responsibilities and actions to be taken for defects such as AOG situations, repetitive defects, and damage beyond type certificate holder’s limits.

For all other defects identified during maintenance, the information should be brought to the attention of the operator who dependent upon the procedural authority granted by the GCAA may determine that some defects can be deferred. Therefore, adequate liaison between the operator, his sub-contracted organisation and contracted CAR 145 maintenance organisation should be ensured.

The sub-contracted organisation should make a positive assessment of potential deferred defects and consider potential hazards arising from the cumulative effect of any combination of defects. The sub-contracted organisations should liaise with the operator to gain his agreement following this assessment.

Deferment of MEL/CDL allowable defects can be accomplished by a contracted CAR 145 organisation in compliance with the relevant technical log procedures, subject to the acceptance by the aircraft commander.

2.14 Mandatory occurrence reporting

All incidents and occurrences that fall within the reporting criteria defined in CAR M and CAR 145 should be reported as required by the respective requirements. The operator should ensure adequate liaison exists with the sub-contracted organisation and the CAR 145 organisation.

2.15 Continuing airworthiness records

These may be maintained and kept by the sub-contracted organisation on behalf of the operator who remains the owner of these documents. However, the operator should be provided with the current status of AD compliance and service life limited components in accordance with agreed procedures. The operator should also be provided with unrestricted and timely access to original records as and when needed. On-line access to the appropriate information systems is acceptable.
The record keeping requirements of CAR M should be satisfied. Access to the records by duly authorised members of the GCAA should be arranged upon request.

2.16 Check flight procedures

Check Flights are carried out under the control of the operator. Check flight requirements from the sub-contracted organisation or contracted CAR 145 maintenance organisations should be agreed by the operator.

2.17 Communication between the operator and sub-contracted organisation

2.17.1 To exercise airworthiness responsibility the operator needs to be in receipt of all relevant reports and relevant maintenance data. The contract should specify what information should be provided and when.

2.17.2 Meetings provide one important cornerstone whereby the operator can exercise part of its responsibility for ensuring the airworthiness of the operated aircraft. They should be used to establish good communications between the operator, the sub-contracted organisation and, where different to the foregoing, the contracted CAR 145 organisation. The terms of contract should include whenever appropriate the provision for a certain number of meetings to be held between involved parties. Details of the types of liaison meetings and associated terms of reference of each meeting should be documented. The meetings may include but are not limited to all or a combination of:

(a) Contract review

Before the contract is applicable, it is very important that the technical personnel of both parties that are involved in the application of the contract meet in order to be sure that every point leads to a common understanding of the duties of both parties.

(b) Work scope planning meeting

Work scope planning meetings may be organised so that the tasks to be performed may be commonly agreed.

(c) Technical meeting

Scheduled meetings should be organised in order to review on a regular basis and agree actions on technical matters such as ADs, SBs, future modifications, major defects found during shop visit, reliability, etc...

(d) Quality meeting

Quality meetings should be organised in order to examine matters raised by the operator's quality surveillance and the GCAA's monitoring activity and to agree upon necessary corrective actions.

(e) Reliability meeting

When a reliability programme exists, the contract should specify the operator's and CAR 145 approved organisation's respective involvement in that programme, including the participation to reliability meetings. Provision to enable the GCAA participation in the periodical reliability meetings should also be provided.
APPENDIX III

RESERVED
APPENDIX IV to AMC CAR M.604
Maintenance Organisation Manual

1. Purpose

The maintenance organisation manual is the reference for all the work carried out by the approved maintenance organisation. It should contain all the means established by the organisation to ensure compliance with CAR M according to the extent of approval and the privileges granted to the organisation.

The maintenance organisation manual should define precisely the work that the approved maintenance organisation is authorised to carry out and the subcontracted work. It should detail the resources used by the organisation, its structure and its procedures.

2. Content

A typical Maintenance Organisation Manual for a small organisation (less than 10 maintenance staff) should be designed to be used directly on a day to day basis. The working documents and lists should be directly included into the manual. It should contain the following:

Part A — General

— Table of content
— List of effective pages
— Record of amendments
— Amendment procedure
  • Drafting
  • Amendments requiring direct approval by the GCAA
  • Approval
— Distribution
  • Name or title of each person holding a copy of the manual
— Accountable manager statement
  • Approval of the manual
  • Statement that the maintenance organisation manual and any incorporated document identified therein reflect the organisation’s means of compliance with CAR M
  • Commitment to work according to the manual
  • Commitment to amend the manual when necessary

Part B — Description

— Organisation’s scope of work
  • Description of the work carried out by the organisation (type of product, type of work) and subcontracted work
• Identification of the level of work which can be performed at each facility.

— General presentation of the organisation
• Legal name and social status

— Name and title of management personnel
• Accountable manager
• Senior managers
• Duties and responsibilities

— Organisation chart

— Certifying staff
• Minimum qualification and experience
• List of authorised certifying staff, their scope of qualification and the personal authorisation reference

— Personnel
• Technical personnel (number, qualifications and experience)
• Administrative personnel (number)

— General description of the facility
• Geographical location (map)
• Plan of hangars
• Specialised workshops
• Office accommodation
• Stores
• Availability of all leased facilities.

— Tools, equipment and material
• List of tools, equipment and material used (including access to tools used on occasional basis)
• Test apparatus
• Calibration frequencies

— Maintenance data
• List of maintenance data used in accordance with CAR M.402, and appropriate amendment subscription information (including access to data used on occasional basis).

Part C — General Procedures

— Organisational review
• Purpose (to insure that the approved maintenance organisation continues to meet the requirements of CAR M)
- Responsibility
- Organisation, frequency, scope and content (including processing of GCAA findings)
- Planning and performance of the review
- Organisational review checklist and forms
- Processing and correction of review findings
- Reporting
- Review of subcontracted work

— **Training**
- Description of the methods used to ensure compliance with the personnel qualification and training requirements (certifying staff training, specialised training)
- Description of the personnel records to be retained

— **Subcontracting of specialised services**
- Selection criteria and control
- Nature of subcontracted work
- List of subcontractors
- Nature of arrangements
- Assignment of responsibilities for the certification of the work performed

— **One time authorisations**
- Maintenance checks
- Certifying staff

**Part D — Working Procedures**

— **Work order acceptance**

— **Preparation and issue of the work package**
- Control of the work order
- Preparation of the planned work
- Work package content (copy of forms, work cards, procedure for their use, distribution)
- Responsibilities and signatures needed for the authorisation of the work

— **Logistics**
- Persons/functions involved
- Criteria for choosing suppliers
- Procedures used for incoming inspection and storage of parts, tools and materials
- Copy of forms and procedure for their use and distribution
— **Execution**
  - Persons/functions involved and respective role
  - Documentation (work package and work cards)
  - Copy of forms and procedure for their use and distribution
  - Use of work cards or manufacturer’s documentation
  - Procedures for accepting components from stores including eligibility check
  - Procedures for returning unserviceable components to stores

— **Release to Service – Certifying staff**
  - Authorised certifying staff functions and responsibilities

— **Release to Service - Supervision**
  Detailed description of the system used to ensure that all maintenance tasks, applicable to the work requested of the approved maintenance organisation, have been completed as required.
  - Supervision content
  - Copy of forms and procedure for their use and distribution
  - Control of the work package

— **Release to Service – Certificate of release to service**
  - Procedure for signing the CRS (including preliminary actions)
  - Certificate of release to service wording and standardised form
  - Completion of the aircraft continuing airworthiness record system
  - Completion of AW FORM 1
  - Incomplete maintenance
  - Check flight authorisation
  - Copy of CRS and AW FORM 1

— **Records**

— **Special procedures**
  Such as specialised tasks, disposal of unsalvageable components, re-certification of parts not having an AW FORM 1, etc.

— **Occurrence reporting**
  - Occurrences to be reported
  - Timeframe of reports
  - Information to be reported
  - Recipients
— Management of indirect approval of the manual
  • Amendments content eligible for indirect approval
  • Responsibility
  • Traceability
  • Information to the GCAA
  • Final validation

Part E – Appendices
  — Sample of all documents used.
  — List of maintenance locations.
  — List of CAR 145 or CAR M. Subpart F organisations.
  — List of subcontracted specialised services.

3. Approval

The GCAA should approve the manual in writing. This will normally be done by approving a list of effective pages.

Minor amendments, or amendments to a large capability list, can be approved indirectly, through a procedure approved by the GCAA.

4. Continuous compliance with CAR M

When a maintenance organisation manual no longer meets the requirements of this CAR M, whether through a change in CAR M, a change in the organisation or its activities, or through an inadequacy shown to exist by verification inspections conducted under the organisational review, or any other reason that affects the manuals conformity to requirements, the approved maintenance organisation is responsible to prepare and have approved an amendment to its manual.

5. Distribution

The manual describes how the organisation works therefore the manual or relevant parts thereof need to be distributed to all concerned staff in the organisation and contracted organisations.
# APPENDIX V to AMC CAR M.704

Continuing Airworthiness Management Organisation Exposition

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DISTRIBUTION LIST

(The document should include a distribution list to ensure proper distribution of the manual and to demonstrate to the GCAA that all personnel involved in continuing airworthiness has access to the relevant information. This does not mean that all personnel have to be in receipt of a manual but that a reasonable amount of manuals are distributed within the organisation(s) so that the concerned personnel may have quick and easy access to this manual.

Accordingly, the continuing airworthiness management exposition should be distributed to:

- the operator’s or the organisation’s management personnel and any person at a lower level as necessary; and,
- the CAR 145 or CAR M. Subpart F contracted maintenance organisation(s) ; and,
- the GCAA.)
PART 0 GENERAL ORGANISATION.

0.1 Corporate commitment by the accountable manager

(The accountable manager's exposition statement should embrace the intent of the following paragraph and in fact this statement may be used without amendment. Any modification to the statement should not alter the intent.)

This exposition defines the organisation and procedures upon which the CAR M. Subpart G approval of [Joe Bloggs] under CAR M is based.

These procedures are approved by the undersigned and must be complied with, as applicable; in order to ensure that all the continuing airworthiness activities including maintenance for aircraft managed by [Joe Bloggs] is carried out on time to an approved standard.

It is accepted that these procedures do not override the necessity of complying with any new or amended regulation published by the GCAA from time to time where these new or amended regulations are in conflict with these procedures.

The GCAA will approve this organisation whilst the GCAA is satisfied that the procedures are being followed. It is understood that the GCAA reserves the right to suspend, vary or revoke the CAR M. Subpart G continuing airworthiness management approval of the organisation, as applicable, if the GCAA has evidence that the procedures are not followed and the standards not upheld.

In the case of commercial air transport, suspension or revocation of the approval of the CAR M Subpart G continuing airworthiness management approval would invalidate the AOC.
0.2 General Information

a) Brief description of the organisation

(This paragraph should describe broadly how the whole organisation [i.e. including the whole operator in the case of commercial air transport or the whole organisation when other approvals are held] is organised under the management of the accountable manager, and should refer to the organisation charts of paragraph 0.4.)

b) Relationship with other organisations

(This paragraph may not be applicable to every organisation.)

(1) Subsidiaries / mother company

(For clarity purpose, where the organisation belongs to a group, this paragraph should explain the specific relationship the organisation may have with other members of that group - e.g. links between [Joe Bloggs] Airlines, [Joe Bloggs] Finance, [Joe Bloggs] Leasing, [Joe Bloggs] Maintenance, etc...)

(2) Consortiums

(Where the organisation belongs to a consortium, it should be indicated here. The other members of the consortium should be specified, as well as the scope of organisation of the consortium [e.g. operations, maintenance, design (modifications and repairs), production etc...]. The reason for specifying this is that consortium maintenance may be controlled through specific contracts and through consortium's policy and/or procedures manuals that might unintentionally override the maintenance contracts. In addition, in respect of international consortiums, the respective competent authorities should be consulted and their agreement to the arrangement clearly stated. This paragraph should then make reference to any consortium's continuing airworthiness related manual or procedure and to any GCAA agreement that would apply.)
c) Aircraft managed – Fleet composition

(This paragraph should quote the aircraft types and the number of aircraft of each type. The following is given as an example :) 

Joe Bloggs PLC manages, as of 28 November 2003, the following:

- 3 B737-300
- 3 B737-400
- 1 A 320-200
- 14 F27 (MK500), etc...

For commercial air transport, the fleet composition reference with the aircraft registrations is given by Joe Bloggs Airlines' current AOC (or elsewhere e.g. in the Operation Manual, by agreement of the GCAA)

(Depending on the number of aircraft, this paragraph may be updated as follows:

(1) The paragraph is revised each time an aircraft is removed from or added in the list.

(2) The paragraph is revised each time a type of aircraft or a significant number of aircraft is removed from or added to the list. In that case the paragraph should explain where the current list of aircraft managed is available for consultation.)

d) Type of operation

(This paragraph should give broad information on the type of operations such as: commercial, aerial work, non-commercial, long haul/short haul/regional, scheduled/charter, regions/countries/continents flown, etc)
0.3 Management personnel

a) Accountable manager

(This paragraph should address the duties and responsibilities of the accountable manager as far as CAR M. subpart G is concerned and demonstrate that he has corporate authority for ensuring that all continuing airworthiness activities can be financed and carried out to the required standard.)

b) Nominated post holder for continuing airworthiness (for commercial air transport)

(This paragraph should:

- Emphasise that the nominated post holder for continuing airworthiness is responsible to ensure that all maintenance is carried out on time to an approved standard.
- Describe the extent of his authority as regards his CAR M responsibility for continuing airworthiness.

This paragraph is not necessary for organisations not holding an AOC)

c) Continuing airworthiness coordination

(This paragraph should list the job functions that constitute the "group of persons" as required by CAR M.706(c) in enough detail so as to show that all the continuing airworthiness responsibilities as described in CAR M are covered by the persons that constitute that group. In the case of small operators, where the "Nominated Post holder for continuing airworthiness constitutes himself the "group of persons", this paragraph may be merged with the previous one.)

d) Duties and responsibilities

(This paragraph should further develop the duties and responsibilities of:

- the personnel listed in paragraphs c): “Continuing airworthiness coordination ”,
- the quality manager, as regards the quality monitoring of the maintenance system [which includes the approved maintenance organisation(s)]
e) Manpower resources and training policy

(1) Manpower resources

(This paragraph should give broad figures to show that the number of people dedicated to the performance of the approved continuing airworthiness activity is adequate. It is not necessary to give the detailed number of employees of the whole company but only the number of those involved in continuing airworthiness. This could be presented as follows)

As of 28 November 2003, the number of employees dedicated to the performance of the continuing airworthiness management system is the following:

<table>
<thead>
<tr>
<th></th>
<th>Full Time</th>
<th>Part Time in equivalent full time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quality monitoring</td>
<td>AA</td>
<td>aa = AA'</td>
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<tr>
<td>Continuing airworthiness management</td>
<td>BB</td>
<td>bb = BB'</td>
</tr>
<tr>
<td></td>
<td>BB1</td>
<td>bb1 = BB1'</td>
</tr>
<tr>
<td>(Detailed information about the management group of persons)</td>
<td>BB2</td>
<td>bb2 = BB2'</td>
</tr>
<tr>
<td>Other...</td>
<td>CC</td>
<td>cc = CC'</td>
</tr>
<tr>
<td>Total</td>
<td>TT</td>
<td>tt = TT'</td>
</tr>
<tr>
<td>Total Man hours</td>
<td>TT + TT'</td>
<td></td>
</tr>
</tbody>
</table>

(Note: According to the size and complexity of the organisation, this table may be further developed or simplified)

(2) Training policy

(This paragraph should show that the training and qualification standards for the personnel quoted above are consistent with the size and complexity of the organisation. It should also explain how the need for recurrent training is assessed and how the training recording and follow-up is performed)
0.4 Management organisation chart(s)

a) General organisation chart

*This flow chart should provide a comprehensive understanding of the whole company's organisation. For example in the case of an AOC holder:*

![General organisation chart]

b) Continuing airworthiness management organisation chart

*This flow chart should give further details on the continuing airworthiness Management system, and should clearly show the independence of the quality monitoring system, including the links between the quality assurance department and the other departments (see example below). This flow chart may be combined with the one above or subdivided as necessary, depending on the size and the complexity of the organisation. For example in the case of an AOC holder:*

![Continuing airworthiness management organisation chart]
0.5 Notification procedure to the GCAA regarding changes to the organisation’s activities / approval / location / personnel

(This paragraph should explain in which occasion the company should inform the GCAA prior to incorporating proposed changes; for instance:

The accountable manager (or any delegated person such as the engineering director or the quality manager) will notify to the GCAA any change concerning:

(1) the company’s name and location(s)
(2) the group of person as specified in paragraph 0.3.c)
(3) operations, procedures and technical arrangements, as far as they may affect the approval.

[Joe Bloggs] will not incorporate such change until the change have been assessed and approved by the GCAA.)

0.6 Exposition amendment procedure

(This paragraph should explain who is responsible for the amendment of the exposition and submission to the GCAA for approval. This may include, if agreed by the GCAA the possibility for the approved organisation to approve internally minor changes that have no impact on the approval held. The paragraph should then specify what types of changes are considered as minor and major and what the approval procedures for both cases are.)
PART 1 CONTINUING AIRWORTHINESS MANAGEMENT PROCEDURES

1.1 Aircraft technical log utilisation and MEL application

or

1.1 Aircraft continuing airworthiness record system utilisation

a) Aircraft technical log and/or continuing airworthiness record system

(1) General

(It may be useful to remind, in this introduction paragraph, the purpose of the aircraft technical log system and/or continuing airworthiness record system, with special care to the options of CAR M.305 and CAR M.306 For that purpose, paragraphs of CAR M.305 and CAR M.306 may be quoted or further explained.)

(2) Instructions for use

(This paragraph should provide instructions for using the aircraft technical log and/or continuing airworthiness record system. It should insist on the respective responsibilities of the maintenance personnel and operating crew. Samples of the technical log and/or continuing airworthiness record system should be included in Part 5 "Appendices" in order to provide enough detailed instructions.)

(3) Aircraft technical log approval (For commercial air transport)

(This paragraph should explain who is responsible for submitting the aircraft technical log any subsequent amendment to the GCAA for approval and what is the procedure to be followed)
b) M.E.L. application

(Although the MEL is a document that is normally not controlled by the continuing airworthiness management system, and that the decision of whether accepting or not a MEL tolerance normally remains the responsibility of the operating crew, this paragraph should explain in sufficient detail the MEL application procedure, because the MEL is a tool that the personnel involved in maintenance have to be familiar with in order to ensure proper and efficient communication with the crew in case of a defect rectification to be deferred.)

(This paragraph does not apply to those types of aircraft that do not have an MEL or are not used for commercial air transport and that are not required to have one.)

(1) General

(This paragraph should explain broadly what a MEL document is. The information could be extracted from the aircraft flight manual.)

(2) MEL categories

(Where an owner/operator uses a classification system placing a time constraint on the rectification of such defect, it should be explained here what are the general principles of such a system. It is essential for the personnel involved in maintenance to be familiar with it for the management of MEL's deferred defect rectification.)

(3) Application

(This paragraph should explain how the maintenance personnel identify a MEL limitation to the crew. This should refer to the technical log procedures)

(4) Acceptance by the crew (For commercial air transport)

(This paragraph should explain how the crew notifies his acceptance or non acceptance of the MEL deferment in the technical log)
(5) Management of the MEL time limits

(After a technical limitation is accepted by the crew, the defect must be rectified within the time limit specified in the MEL. There should be a system to ensure that the defect will actually be corrected before that limit. This system could be the aircraft technical log for those [small] operators that use it as a planning document, or a specific follow-up system, in other cases, where control of the maintenance time limit is ensured by another means such as data processed planning systems.)

(6) MEL Time Limitation Overrun

(The GCAA may grant the owner/operator permission to overrun MEL time limitation under specified conditions. Where applicable this paragraph should describe the specific duties and responsibilities for controlling these extensions.)

1.2 Aircraft maintenance programmes – development, amendment and approval

a) General

(This introductory paragraph should remind that the purpose of a maintenance programme is to provide maintenance planning instructions necessary for the safe operation of the aircraft.)

b) Content

(This paragraph should explain what is [are] the format[s] of the company's aircraft maintenance programme[s]. Appendix I to AMC CAR M.302 (a) should be used as a guideline to develop this paragraph.)

c) Development

(1) Sources

(This paragraph should explain what are the sources [MRB, MPD, Maintenance Manual, etc..] used for the development of an aircraft maintenance programme.)
(2) Responsibilities

(This paragraph should explain who is responsible for the development of an aircraft maintenance programme)

(3) Manual amendments

(This paragraph should demonstrate that there is a system for ensuring the continuing validity of the aircraft maintenance programme. Particularly, it should show how any relevant information is used to update the aircraft maintenance programme. This should include, as applicable, MRB report revisions, consequences of modifications, manufacturers and GCAA recommendations, in service experience, and reliability reports.)

(4) Acceptance by the GCAA

(This paragraph should explain who is responsible for the submission of the maintenance programme to the GCAA and what the procedure to follow is. This should in particular address the issue of the GCAA approval for variation to maintenance periods. This may include, if agreed by the GCAA, the possibility for the approved organisation to approve internally certain changes. The paragraph should then specify what types of changes are concerned and what the approval procedures are.)

1.3 Time and continuing airworthiness records, responsibilities, retention and access

a) Hours and cycles recording

(The recording of flight hours and cycles is essential for the planning of maintenance tasks. This paragraph should explain how the continuing airworthiness management organisation has access to the current flight hours and cycle information and how it is processed through the organisation.)

b) Records

(This paragraph should give in detail the type of company documents that are required to be recorded and what are the recording period requirements for each of the CAR M records. This can be provided by a table or series of tables that would include the following:

- Family of document [if necessary],
- Name of document,
- Retention period,
- Responsible person for retention,
- Place of retention,

c) Preservation of records

(This paragraph should set out the means provided to protect the records from fire, floods, etc. as well as the specific procedures in place to guarantee that the records will not been altered during the retention period [especially for the computer record].)

d) Transfer of continuing airworthiness records

(This paragraph should set out the procedure for the transfer of records, in case of purchase/lease-in, sale/lease-out and transfer to another organisation of an aircraft. In particular, it should specify which records have to be transferred and who is responsible for the coordination [if necessary] of the transfer.)

1.4 Accomplishment and control of Airworthiness Directives

(This paragraph should demonstrate that there is a comprehensive system for the management of airworthiness directives. This paragraph may for instance include the following Sub-paragraphs:)

a) Airworthiness directive information

(This paragraph should explain what the AD information sources are and who receives them in the company. Where available, redundant sources [e.g. EASA+ GCAA + manufacturer or association] may be useful.)

b) Airworthiness directive decision

(This paragraph should explain how and by whom the AD information is analysed and what kind of information is provided to the contracted maintenance organisations in order to plan and to perform the airworthiness directive. This should as necessary include a specific procedure for emergency airworthiness directive management)
c) Airworthiness directive control

(This paragraph should specify how the organisation manages to ensure that all the applicable airworthiness directives are performed and that they are performed on time. This should include a close loop system that allows verifying that for each new or revised airworthiness directive and for each aircraft:

- the AD is not applicable or,
- if the AD is applicable:
- the Airworthiness Directive is not yet performed but the time limit is not overdue,
- the Airworthiness Directive is performed, and any repetitive inspection are identified and performed.

This may be a continuous process or may be based on scheduled reviews.)

5 Analysis of the effectiveness of the maintenance programme(s)

(this paragraph should show what tools are used in order to analyse the efficiency of the maintenance programme, such as:

- PIREPS,
- air turn-backs
- spare consumption,
- repetitive technical occurrence and defect,
- technical delays analysis [through statistics if relevant],
- technical incidents analysis [through statistics if relevant],

The paragraph should also indicate by whom and how these data are analysed, what is the decision process to take action and what kind of action could be taken. This may include:

- amendment of the maintenance programme,
- amendment of maintenance or operational procedures, etc.)

1.6 Non-mandatory modification embodiment policy

(This paragraph should state the organisation’s policy for what non-mandatory modifications should be applied and how others should be assessed. It should specify how the non-mandatory modification information sources are processed through the organisation, who is responsible for their assessment
against the operator’s/owner’s own need and operational experience, what are the main criteria for decision and who takes the decision of implementing [or not] a non-mandatory modification)

1.7 Major repair and modification standards

(This paragraph should set out a procedure for the assessment of the approval status of any major repair or modification before embodiment. This will include the assessment of the need of a GCAA or design organisation approval. It should also identify the type of approval required, and the procedure to follow to have a repair or modification approved by the GCAA or design organisation.)

1.8 Defect reports

a) Analysis

(This paragraph should explain how the defect reports provided by the contracted maintenance organisations are processed by the continuing airworthiness management organisation. Analysis should be conducted in order to give elements to activities such as maintenance programme evolution and non mandatory modification policy.)

b) Liaison with manufacturers and regulatory authorities

(Where a defect report shows that such defect is likely to occur to other aircraft, a liaison should be established with the manufacturer and the certification Authority, so that they may take all the necessary action.)

c) Deferred defect policy

(Defects such as cracks and structural defect are not addressed in the MEL and CDL. However, it may be necessary in certain cases to defer the rectification of a defect. This paragraph should establish the procedure to be followed in order to be sure that the deferment of any defect will not lead to any safety concern. This will include appropriate liaison with the manufacturer.)
1.9 Engineering activity

(Where applicable, this paragraph should expose the scope of the organisation’s engineering activity in terms of approval of modification and repairs. It should set out a procedure for developing and submitting a modification/repair design for approval to the GCAA and include reference to the supporting documentation and forms used. It should identify the person in charge of accepting the design before submission to the GCAA)

Where the organisation has a DOA capability under CAR 21, it should be indicated here and the related manuals should be referred to.)

1.10 Reliability programmes

(This paragraph should explain appropriately the management of a reliability programme. It should at least address the following:

- extent and scope of the operator’s reliability programmes,
- specific organisational structure, duties and responsibilities,
- establishment of reliability data,
- analysis of the reliability data,
- corrective action system (maintenance programme amendment),
- scheduled reviews (reliability meetings, the participation of the GCAA.)

(This paragraph may be, where necessary, subdivided as follows:

- Airframe
- Propulsion
- Component)

1.11 Pre-flight inspections

(This paragraph should show how the scope and definition of pre-flight inspection, that are usually performed by the operating crew, is kept consistent with the scope of the maintenance performed by the contracted maintenance organisations. It should show how the evolution of the pre-flight inspection content and the maintenance programme are concurrent, each time necessary.)
(The following paragraphs are self explanatory. Although these activities are normally not performed by continuing airworthiness personnel, these paragraphs have been placed here in order to ensure that the related procedures are consistent with the continuing airworthiness activity procedures.)

a) Preparation of aircraft for flight

b) Sub-contracted ground handling function

c) Security of Cargo and Baggage loading

d) Control of refueling, Quantity/Quality

e) Control of snow, ice, residues from de-icing or anti-icing operations, dust and sand contamination to an approved standard

1.12 Aircraft weighing

(This paragraph should state in which occasion an aircraft has to be weighed [for instance after a major modification because of weight and balance operational requirements, etc.] who performs it, according to which procedure, who calculates the new weight and balance and how the result is processed into the organisation.)

1.13 Check flight procedures

(The criteria for performing a check flight are normally included in the aircraft maintenance programme. This paragraph should explain how the check flight procedure is established in order to meet its intended purpose [for instance after a heavy maintenance check, after engine or flight control removal installation, etc..], and the release procedures to authorise such a check flight.)
PART 2 QUALITY SYSTEM

2.1 Continuing airworthiness quality policy, plan, audit and non-conformity remedial action procedure

a) Continuing airworthiness quality policy

(This paragraph should include a formal Quality Policy statement; that is a commitment on what the Quality System is intended to achieve. It should include at the minimum monitoring compliance with CAR M and any additional standards specified by the organisation.)

b) Quality plan

(This paragraph should show how the quality plan is established. The quality plan will consist of a quality audit and sampling schedule that should cover all the areas specific to CAR M in a definite period of time. However, the scheduling process should also be dynamic and allow for special evaluations when trends or concerns are identified. In case of sub-contracting, this paragraph should also address the planning of the auditing of subcontractors at the same frequency as the rest of the organisation.)

c) Quality audit procedure

(The quality audit is a key element of the quality system. Therefore, the quality audit procedure should be sufficiently detailed to address all the steps of an audit, from the preparation to the conclusion, show the audit report format [e.g. by ref. to paragraph 5.1 "sample of document"], and explain the rules for the distribution of audits reports in the organisation [e.g.: involvement of the Quality Manager, Accountable Manager, Nominated Postholder, etc...].)

d) Non-conformity remedial action procedure

(This paragraph should explain what system is put in place in order to ensure that the corrective actions are implemented on time and that the result of the corrective action meets the intended purpose. For instance, where this system consists in periodical corrective actions review, instructions should be given how such reviews should be conducted and what should be evaluated.)
2.2 Monitoring of continuing airworthiness management activities

(This paragraph should set out a procedure to periodically review the activities of the maintenance management personnel and how they fulfil their responsibilities, as defined in Part 0.)

2.3 Monitoring of the effectiveness of the maintenance programme(s)

(This paragraph should set out a procedure to periodically review that the effectiveness of the maintenance programme is actually analysed as defined in Part 1.)

2.4 Monitoring that all maintenance is carried out by an appropriate maintenance organisation

(This paragraph should set out a procedure to periodically review that the approval of the contracted maintenance organisations are relevant for the maintenance being performed on the operator's fleet. This may include feedback information from any contracted organisation on any actual or contemplated amendment, in order to ensure that the maintenance system remains valid and to anticipate any necessary change in the maintenance agreements.

If necessary, the procedure may be subdivided as follows:

a) Aircraft maintenance

b) Engines

c) Components

2.5 Monitoring that all contracted maintenance is carried out in accordance with the contract, including sub-contractors used by the maintenance contractor

(This paragraph should set out a procedure to periodically review that the continuing airworthiness management personnel are satisfied that all contracted maintenance is carried out in accordance with the contract. This may include a procedure to ensure that the system allows all the personnel involved in the contract [including the contractors and his subcontractors] to be acquainted with its terms and that, for any contract amendment, relevant information is dispatched in the organisation and at the contractor.)
2.6 Quality audit personnel – qualification, training, experience and competence assessment

(This paragraph should establish the required qualification, training and experience standards for auditors. It should also define the process for carrying out ongoing competence assessment for quality audit staff. Where persons act as a part time auditor, it should be emphasized that this person must not be directly involved in the activity he/she audits.)

2.7 Continuing airworthiness management personnel – qualification, training, experience and competence assessment

(This paragraph should establish the required qualification, training, and experience standards of all personnel involved in continuing airworthiness management. It should also define the process for carrying out ongoing competence assessment for continuing airworthiness management personnel.

PART 3 CONTRACTED MAINTENANCE

3.1 Maintenance contractor selection procedure

(This paragraph should explain how a maintenance contractor is selected by the continuing airworthiness management organisation. Selection should not be limited to the verification that the contractor is appropriately approved for the type of aircraft, but also that the contractor has the industrial capacity to undertake the required maintenance. This selection procedure should preferably include a contract review process in order to insure that:

- the contract is comprehensive and that no gap or unclear area remains,
- everyone involved in the contract [both at the continuing airworthiness management organisation and at the maintenance contractor] agrees with the terms of the contract and fully understand his responsibility.
- that functional responsibilities of all parties are clearly identified.
- is signed by the owner/lessee of the aircraft in the case of non-commercial air transport.

In the case of non commercial air transport, this activity should be carried in agreement with the owner.)
3.2 Quality audit of aircraft

(This paragraph should set out the procedure when performing a quality audit of an aircraft. It should set out the differences between an airworthiness review and quality audit. This procedure may include:

- compliance with approved procedures;
- contracted maintenance is carried out in accordance with the contract;
- continued compliance with CAR CAR M.)

PART 4 AIRWORTHINESS REVIEW PROCEDURES

4.1 Airworthiness review staff

(This paragraph should establish the working procedures for the assessment of the airworthiness review staff. The assessment addresses experience, qualification, training etc. A description shall be given regarding the issuance of authorisations for the airworthiness review staff and how records are kept and maintained.)

4.2 Review of aircraft records

(This paragraph should describe in detail the aircraft records that are required to be reviewed during the airworthiness review. The level of detail that needs to be reviewed shall be described and the number of records that need to be reviewed during a sample check.)

4.3 Physical survey

(This paragraph should describe how the physical survey needs to be performed. It should list the topics that need to be reviewed, the physical areas of the aircraft to be inspected, which documents onboard the aircraft that need to be reviewed etc.)

4.4 Additional procedures for recommendations to the GCAA for the import of aircraft

(This paragraph should describe the additional tasks regarding the recommendation for the issuance of an airworthiness review certificate in the case of an import of an aircraft. This shall include: communication with the GCAA, additional items to be reviewed during the airworthiness review of the aircraft, specification of maintenance required to be carried out etc.)
4.5 Recommendations to the GCAA for the issue of airworthiness review certificates

(This paragraph should stipulate the communication procedures with the competent authorities in case of a recommendation for the issuance of an airworthiness review certificate. In addition the content of the recommendation should be described.)

4.6 Issuance of airworthiness review certificates

(This paragraph should set out the procedures for the issuance of the ARC. It should address record keeping, distribution of the ARC copies etc. This procedure should ensure that only after an airworthiness review that has been properly carried out, an ARC will be issued.)

4.7 Airworthiness review records, responsibilities, retention and access

(This paragraph should describe how records are kept, the periods of record keeping, location where the records are being stored, access to the records and responsibilities.)

PART 5 APPENDICES

5.1 Sample documents

(A self explanatory paragraph)

5.2 List of airworthiness review staff

(A self explanatory paragraph)

5.3 List of sub-contractors as per AMC CAR M.201 (h) 1 and CAR M.711 (a) 3.

(A self explanatory paragraph, in addition it should set out that the list should be periodically reviewed)

5.4 List of approved maintenance organisations contracted

(A self explanatory paragraph, in addition it should set out that the list should be periodically reviewed)
5.5 Copy of contracts for sub-contracted work (Appendix II to CAR M.201 (h) 1)

(A self explanatory paragraph)

5.6 Copy of contracts with approved maintenance organisations

(A self explanatory paragraph)
APPENDIX VI

RESERVED
APPENDIX VII

RESERVED
APPENDIX VIII to AMC CAR M.616

This is only applicable to organisations with less than 10 maintenance staff members. For larger organisations, the principles and practices of an independent quality system should be used.

Depending on the complexity of the small organisation (number and type of aircraft, number of different fleets, subcontracting of specialised services, etc.), the organisational review system may vary from a system using the principles and practices of a quality system (except for the requirement of independence) to a simplified system adapted to the low complexity of the organisation and the aircraft managed.

As a core minimum, the organisational review system should have the following features, which should be described in the Maintenance Organisation Manual (MOM):

a. Identification of the person responsible for the organisational review programme.
   By default, this person should be the accountable manager, unless he delegates this responsibility to (one of) the CAR M.606(b) person(s).

b. Identification and qualification criteria for the person(s) responsible for performing the organisational reviews.
   These persons should have a thorough knowledge of the regulations and of the maintenance organisation procedures. They should also have knowledge of audits, acquired through training or through experience (preferably as an auditor, but also possibly because they actively participated in several audits conducted by the GCAA).

c. Elaboration of the organisational review programme:
   - Checklist(s) covering all items necessary to be satisfied that the organisation delivers a safe product and complies with the regulation. All procedures described in the MOM should be addressed.
   - A schedule for the accomplishment of the checklist items. Each item should be checked at least every 12 months. The organisation may choose to conduct one full review annually or to conduct several partial reviews.

d. Performance of organisational reviews
   Each checklist item should be answered using an appropriate combination of:
   - review of records, documentation, etc.
   - sample check of aircraft under contract or being maintained under a work order.
   - interview of personnel involved.
   - review of discrepancies and difficulty internal reports (e.g. notified difficulties in using current procedures and tools, systematic deviations from procedures, etc.).
   - review of complaints filed by customers after delivery.

e. Management of findings and occurrence reports.
   - All findings should be recorded and notified to the affected persons.
   - All level 1 findings, in the sense of CAR M.619(a), should be immediately notified to the GCAA and all necessary actions on aircraft in service should be immediately taken.
• All occurrence reports should be reviewed with the aim being continuous improvement of the system by identifying possible corrective and preventive actions. This should be done in order to find prior indicators (e.g., notified difficulties in using current procedures and tools, systematic deviations from procedures, unsafe behaviours, etc.), and dismissed alerts that, had they been recognised and appropriately managed before the event, could have resulted in the undesired event being prevented.

• Corrective and preventive actions should be approved by the person responsible for the organisational review programme and implemented within a specified time frame.

• Once the person responsible for the organisational review programme is satisfied that the corrective action is effective, closure of the finding should be recorded along with a summary of the corrective action.

• The accountable manager should be notified of all significant findings and, on a regular basis, of the global results of the organisational review programme.

Following is a typical example of a simplified organisational review checklist, to be adapted as necessary to cover the MOM procedures:

1 – Scope of work

Check that:

• All aircraft and components under maintenance or under contract are covered in the approval certificate.

• The scope of work in the MOM does not disagree with the approval certificate.

• No work has been performed outside the scope of the approval certificate and the MOM.

2 - Maintenance data

• Check that maintenance data to cover the aircraft in the scope of work of the MOM are present and up-to-date.

• Check that no change has been made to the maintenance data from the TC holder without being notified.

3 – Equipment and Tools

• Check the equipment and tools against the lists in the MOM and check if still appropriate to the TC holder’s instructions.

• Check tools for proper calibration (sample check).

4 – Stores

• Do the stores meet the criteria in the procedures of the MOM?

• Check by sampling some items in the store for presence of proper documentation any overdue items.
5 – Certification of maintenance
- Has maintenance on products and components been properly certified?
- Have implementation of modifications/repairs been carried out with appropriate approval of such modifications/repairs (sample check).

6 – Relations with the owners/operators
- Has maintenance been carried out with suitable work orders?
- When a contract has been signed with an owner/operator, has the obligations of the contracts been respected on each side?

7 – Personnel
- Check that the current accountable manager and other nominated persons are correctly identified in the approved MOM.
- If the number of personnel has decreased or if the activity has increased, check that the staff are still adequate to ensure a safe product.
- Check that the qualification of all new personnel (or personnel with new functions) has been appropriately assessed.
- Check that the staff have been trained, as necessary, to cover changes in:
  - regulations,
  - GCAA publications,
  - the MOM and associated procedures,
  - the products in the scope of work,
  - maintenance data (significant ADs, SBs, etc.).

8 – Maintenance contracted
- Sample check of maintenance records:
  - Existence and adequacy of the work order,
  - Data received from the maintenance organisation:
    - Valid CRS including any deferred maintenance,
    - List of removed and installed equipment and copy of the associated AW Form 1 or equivalent.
- Obtain a copy of the current approval certificate of the maintenance organisations contracted.

9 – Maintenance sub-contracted
- Check that subcontractors for specialised services at are properly controlled by the organisation;
10 – Technical records and record-keeping

- Have the maintenance actions been properly recorded?
- Have the certificates (AW Form 1 and Conformity certificates) been properly collected and recorded?
- Perform a sample check of technical records to ensure completeness and storage during the appropriate periods.
- Is storage of computerised data properly ensured?

11 – Occurrence reporting procedures

- Check that reporting is properly performed.
- Actions taken and recorded.
APPENDIX IX

APPLICATION FOR CAR 145/CAR M SUBPART F APPROVAL

AWF-AMO-001
Note: Form not included, form can be downloaded from GCAA website

APPLICATION FOR CAR M SUBPART G APPROVAL

AWF-AMO-014A
Note: Form not included, form can be downloaded from GCAA website
APPENDIX X

APPLICATION FOR ACCEPTANCE OF NOMINATED PERSONNEL BY THE GCAA

GTF-NPA-001
Note: Form not included, form can be downloaded from GCAA website
APPENDIX XI to AMC to CAR M.708(b)

CONTRACTED MAINTENANCE

1. Maintenance contracts

The following paragraphs are not intended to provide a standard maintenance contract but to provide a list of the main points that should be addressed, when applicable, in a maintenance contract between an Operator and a CAR 145 approved organisation. As only the technical parts of the maintenance contracts have to be acceptable to the GCAA, the following paragraphs only address technical matters and exclude matters such as costs, delay, warranty, etc...

When maintenance is contracted to more than one CAR 145 approved organisation (for example aircraft base maintenance to X, engine maintenance to Y and line maintenance to Z1, Z2&Z3), attention should be paid to the consistency of the different maintenance contracts.

A maintenance contract is not normally intended to provide appropriate detailed work instruction to the personnel (and is not normally distributed as such). Accordingly there must be established organisational responsibility, procedures and routines in the Operator’s CAR M Subpart G and CAR 145 organisations to take care of these functions in a satisfactory way such that any person involved is informed about his responsibility and the procedures which apply. These procedures and routines can be included/appended to the operator’s CAME and maintenance organisation’s MOE or consist in separate procedures. In other words procedures and routines should reflect the conditions of the contract.

2. Aircraft/Engine maintenance

The following subparagraphs may be adapted to a maintenance contract that applies to aircraft base maintenance, aircraft line maintenance, and engine maintenance. Aircraft maintenance also includes the maintenance of the engines and APU while they are installed on the aircraft.

2.1. Scope of work

The type of maintenance to be performed by the CAR 145 approved organisation should be specified unambiguously. In case of line and/or base maintenance, the contract should specify the aircraft type and, preferably include the aircraft registrations.

In case of engine maintenance, the contract should specify the engine type.

2.2. Locations identified for the performance of maintenance/ Certificates held

The place(s) where base and line maintenance will be performed should be specified. The certificate held by the maintenance organisation at the place(s) where the maintenance will be performed should be referred to in the contract. If necessary the contract may address the possibility of performing maintenance at any location subject to the need for such maintenance arising either from the unserviceability of the aircraft or from the necessity of supporting occasional line maintenance.
2.3. **Subcontracting**

The maintenance contract should specify under which conditions the CAR 145 approved organisation may subcontract tasks to a third party (whether this third party is CAR 145 approved or not). At least the contract should make reference to CAR 145.75. Additional guidance is provided by the AMC to 145.A.75. In addition the Operator may require the CAR 145 approved organisation to request the operator’s approval before subcontracting to a third party. Access should be given to the operator to any information (especially the quality monitoring information) about the CAR 145 approved organisation's subcontractors involved in the contract. It should however be noted that under operators responsibility both the operator and the GCAA are entitled to be fully informed about subcontracting.

2.4. **Maintenance programme**

The maintenance programme under which the maintenance has to be performed has to be specified. The operator must have that maintenance Programme approved by the GCAA. When the maintenance programme is used by several operators, it is important to remember that it is the responsibility of each operator to have that maintenance programme approved under its own name by the GCAA.

2.5. **Quality monitoring**

The terms of the contract should include a provision allowing the operator to perform a quality surveillance (including audits) upon the CAR 145 approved organisation. The maintenance contract should specify how the results of the Quality surveillance are taken into account by the CAR 145 approved organisation (See also para.2.23. "Meetings").

2.6. **GCAA involvement**

When the operator's CAR 145 approved organisation is based outside of the UAE and has a primary maintenance approval granted by the Authority where the organisation is located, the operator and the CAR 145 approved organisation have to ensure together with their Authority that the respective Authority 's responsibilities are properly defined and that, if necessary, delegations have been established.

2.7. **Airworthiness data**

The airworthiness data used for the purpose of this contract as well as the authority responsible for the acceptance/approval must be specified. This may include, but may not be limited to:

- Maintenance Programme,
- Airworthiness Directives
- major repairs/modification data,
- aircraft Maintenance Manual,
- aircraft IPC,
- Wiring diagrams,
- Trouble shooting manual,
- Minimum Equipment List (normally on board the aircraft),
- Operations Manual
- Flight Manual
- Engine maintenance Manual
- Engine overhaul Manual

2.8. **Incoming Conditions**

The contract should specify in which condition the operators must send the aircraft to the CAR 145 approved organisation. For checks of significance i.e. 'C' checks and above, an engine repair following failure or an overhaul, it may be beneficial that a workscope planning meeting be organised so that the tasks to be performed may be commonly agreed (see also paragraph 2.23: "Meetings").

2.9. **Airworthiness Directives and Service Bulletin/Modifications**

The contract should specify what information the operator is responsible to provide to the CAR 145 approved organisation, such as the due date of the AD, the selected means of compliance, the decision to embody Service Bulletins (SB's) or modification, etc... In addition the type of information the operator will need in return to complete the control of ADs and modification-status should be specified.

2.10. **Hours & Cycles control.**

Hours and cycles control is the responsibility of the operator, but there may be cases where the CAR 145 approved organisation must be in receipt of the current flight hours and cycles on a regular basis so that it may update the records for its own planning functions (see also paragraph 2.22: "Exchange of information").

2.11. **Service Life limited components**

Service Life Limited component control is the responsibility of the operator.

The CAR 145 approved organisation will have to provide the operator with all the necessary information about the service life limited components removal/installation so that the Operator may update its records (see also paragraph 2.22 "Exchange of information").

2.12. **Supply of parts.**

The contract should specify whether a particular type of material or component is supplied by the operator or by the contracted CAR 145 approved organisation, which type of component is pooled, etc. The contract should clearly state that it is solely and entirely the CAR 145 organisation's responsibility to be in any case satisfied that the component in question meets the approved data/standard and to ensure that the aircraft component is in a satisfactory condition for installation. In other words, there is definitely no way for a CAR 145 organisation to accept whatever he receives from the operator. Additional guidance is provided by CAR M.501(a) and CAR 145.42 for acceptance of components.
2.13. Pooled parts at line stations.

The contract should specify how the subject of pooled parts at line stations should be addressed.

2.14. Scheduled maintenance

For planning scheduled maintenance checks, the support documentation to be given to the CAR 145 approved organisation should be specified. This may include, but may not be limited to:

- applicable work package, including job cards;
- scheduled component removal list;
- modifications to be incorporated;

When the CAR 145 approved organisation determines, for any reason, to defer a maintenance task, it has to be formally agreed by the Operator. If the deferment goes beyond an approved limit, refer to paragraph 2.17: "Deviation from the maintenance Schedule". This should be addressed, where applicable, in the maintenance contract.

2.15. Unscheduled maintenance/Defect rectification.

The contract should specify to which level the CAR 145 approved organisation may rectify a defect without reference to the operator. As a minimum, the approval and incorporation of major repairs should be addressed. The deferment of any defect rectification shall be submitted to the operator and, if applicable, to the GCAA.

2.16. Deferred tasks.

See paragraphs 2.14 and 2.15 above and AMC to 145.50 (e). In addition, the use of the Operator's MEL and the relation with the Operator in case of a defect that cannot be rectified at the line station should be addressed.

2.17. Deviation from the maintenance schedule.

Deviations have to be requested by the operator to the GCAA or granted by the Operator in accordance with a procedure acceptable to the GCAA. The contract should specify the support the CAR 145 approved organisation may provide to the operator in order to substantiate the deviation request.

2.18. Check flight.

If any check flight is required after maintenance, it shall be performed in accordance with the operator's Continuing airworthiness management exposition.

2.19. Bench/Cell Test

The contract should specify the acceptability criterion and whether a representative of the operator should witness an engine undergoing test.
2.20. Release to service documentation.

The release to service has to be performed by the CAR 145 approved organisation in accordance with its MOE procedures. The contract should, however, specify which support forms have to be used (Operator's technical log, CAR 145 approved organisation's maintenance visit file, etc...) and the documentation the CAR 145 approved organisation should provide to the operator upon delivery of the aircraft/engine. This may include but may not be limited to:

- Certificate of release to service *mandatory*,
- Check flight report,
- list of modifications embodied,
- list of repairs,
- list of airworthiness directives incorporated,
- maintenance visit report,
- Test bench/cell report,

2.21. Maintenance records.

The Operator may contract the CAR 145 approved organisation to retain some of the maintenance records required by CAR M Subpart C. It should be ensured that every requirement of CAR M Subpart C is fulfilled by either the operator or the CAR 145 approved organisation. In such a case, free and quick access to the above mentioned records should be given by the CAR 145 approved organisation to the operator and the GCAA.

2.22. Exchange of information.

Each time exchange of information between the operator and the CAR 145 approved organisation is necessary, the contract should specify what information should be provided and when (i.e. on what occasion or at what frequency), how, by whom and to whom it has to be transmitted.

2.23. Meetings.

In order that the GCAA may be satisfied that a good communication system exists between the Operator and the CAR 145 approved organisation, the terms of the maintenance contract should include the provision for a certain number of meetings to be held between both parties.


Before the contract is applicable, it is very important that the technical personnel of both parties that are involved in the application of the contract meet in order to be sure that every point leads to a common understanding of the duties of both parties. This should also be reviewed periodically, at least at each contract amendment.
2.23.2. **Workscope planning meeting.**

Workscope planning meetings may be organised so that the tasks to be performed may be commonly agreed.

2.23.3. **Technical meeting.**

Scheduled meetings may be organised in order to review on a regular basis technical matters such as AD's, SB's, future modifications, major defects found during maintenance checks, reliability, etc... 

2.23.4. **Quality meeting.**

Quality meetings may be organised in order to examine matters raised by the operator's quality surveillance and to agree upon necessary corrective actions.

2.23.5. **Reliability meeting.**

When a reliability programme exists, the contract should specify the Operator’s and CAR 145 approved organisation's respective involvement in that programme, including the participation to reliability meetings.
APPENDIX XII to AMC to CAR M.706 (f)

Fuel Tank Safety training

This appendix includes general instructions for providing training on Fuel Tank Safety issues.

A) Effectivity:
   - Large airplanes as defined with a maximum type certified passenger capacity of 30 or more or a maximum certified payload capacity of 7500 lbs (3402 kg) cargo or more, and
   - Large aeroplanes which contain CS25 amendment 1 or later in their certification basis.

B) Affected organisations:
   - CAR M. Subpart G approved organisations involved in the continuing airworthiness management of aeroplanes specified in paragraph A).

C) Persons from affected organisations who should receive training:
   Phase 1 only:
   - The quality manager and quality personnel.

   Phase 1 + Phase 2 + Continuation training:
   - Personnel of the CAR M. Subpart G organisation involved in the management and review of the continuing airworthiness of aircraft specified in paragraph A).

D) General requirements of the training courses
   Phase 1 – Awareness
   The training should be carried out before the person starts to work without supervision but not later than 6 months after joining the organisation. The persons who have already attended the Level 1 Familiarisation course in compliance with Appendix XII CAR M. 706 F are already in compliance with Phase 1.

   Type: Should be an awareness course with the principal elements of the subject. It may take the form of a training bulletin, or other self study or informative session. Signature of the reader is required to ensure that the person has passed the training.

   Level: It should be a course at the level of familiarisation with the principal elements of the subject.
Objectives:
The trainee should, after the completion of the training:

1. Be familiar with the basic elements of the fuel tank safety issues.
2. Be able to give a simple description of the historical background and the elements requiring a safety consideration, using common words and showing examples of non-conformities.
3. Be able to use typical terms.

Content: The course should include:
- a short background showing examples of fuel tank safety accidents or incidents,
- the description of concept of fuel tank safety and CDCCL,
- some examples of manufacturers documents showing CDCCL items,
- typical examples of fuel tank safety defects,
- some examples of TC holders repair data
- some examples of maintenance instructions for inspection.

Phase 2 – Detailed training
A flexible period may be allowed by the competent authorities to allow organisations to set the necessary courses and impart the training to the personnel, taking into account the organisation’s training schemes/means/practices. This flexible period should not extend beyond 31 December 2012.

The persons who have already attended the Level 2 Detailed training course in compliance with this appendix, either from a CAR M. Subpart G approved organisation or from a CAR 147 training organisation, are already in compliance with Phase 2 with the exception of continuation training.

Staff should have received Phase 2 training by 31 December 2012 or within 12 months of joining the organisation, whichever comes later.

Type: Should be a more in-depth internal or external course. It should not take the form of a training bulletin or other self study. An examination should be required at the end, which should be in the form of a multi choice question paper, and the pass mark of the examination should be 75%.

Level: It should be a detailed course on the theoretical and practical elements of the subject.

The training may be made either:
- in appropriate facilities containing examples of components, systems and parts affected by Fuel Tank Safety (FTS) issues. The use of films, pictures and practical examples on FTS is recommended; or
- by attending a distance course (e-learning or computer based training) including a film when such film meets the intent of the objectives and content here below. An e-learning or computer based training should meet the following criteria:
  - A continuous evaluation process should ensure the effectiveness of the training and its relevance;
Some questions at intermediate steps of the training should be proposed to ensure that the trainee is authorised to move to the next step;

The content and results of examinations should be recorded;

Access to an instructor in person or at distance should be possible in case support is needed.

A duration of 8 hours for phase 2 is an acceptable compliance.

When the course is provided in a classroom, the instructor should be very familiar with the data in Objectives and Guidelines. To be familiar, an instructor should have attended himself a similar course in a classroom and made additionally some lecture of related subjects.

Objectives:

The attendant should, after the completion of the training:

- Have knowledge of the history of events related to fuel tank safety issues and the theoretical and practical elements of the subject, have an overview of the FAA regulations known as SFAR (Special FAR) 88 of the FAA and of JAA Temporary Guidance Leaflet TGL 47, be able to give a detailed description of the concept of fuel tank system ALI (including Critical Design Configuration Control Limitations CDCCL, and using theoretical fundamentals and specific examples;

- Have the capacity to combine and apply the separate elements of knowledge in a logical and comprehensive manner;

- Have knowledge on how the above items affect the aircraft;

- Be able to identify the components or parts or the aircraft subject to FTS from the manufacturer’s documentation,

- Be able to plan the action or apply a Service Bulletin and an Airworthiness Directive.

Content: Following the guidelines described in paragraph E).

Continuation training:

The organisation should ensure that the continuation training is performed in each two years period. The syllabus of the training programme referred to in the Training policy of the Continuing Airworthiness Management Exposition (CAME) should contain the additional syllabus for this continuation training.

The continuation training may be combined with the phase 2 training in a classroom or at distance.

The continuing training should be updated when new instructions are issued which are related to the material, tools, documentation and manufacturer’s or GCAA’s directives.

E) Guidelines for preparing the content of Phase 2 courses.

The following guidelines should be taken into consideration when the phase 2 training programme are being established:

a) understanding of the background and the concept of fuel tank safety,
b) how the mechanics can recognise, interpret and handle the improvements in the instructions for continuing airworthiness that have been made or are being made regarding fuel tank systems,

c) awareness of any hazards especially when working on the fuel system, and when the Flammability Reduction System using nitrogen is installed.

Paragraphs a), b) and c) above should be introduced in the training programme addressing the following issues:

i) The theoretical background behind the risk of fuel tank safety: the explosions of mixtures of fuel and air, the behaviour of those mixtures in an aviation environment, the effects of temperature and pressure, energy needed for ignition etc, the ‘fire triangle’, Explain 2 concepts to prevent explosions:

(1) ignition source prevention and

(2) flammability reduction,

ii) The major accidents related to fuel tank systems, the accident investigations and their conclusions,

iii) SFAR 88 of the FAA and JAA Interim Policy INT POL 25/12: ignition prevention program initiatives and goals, to identify unsafe conditions and to correct them, to systematically improve fuel tank maintenance),

iv) Explain briefly the concepts that are being used: the results of SFAR 88 of the FAA and JAA INT/POL 25/12: modifications, airworthiness limitation items and CDCCL,

v) Where relevant information can be found and how to use and interpret this information in the various instructions for continuing airworthiness (aircraft maintenance manuals, component maintenance manuals...),

vi) Fuel Tank Safety during maintenance: fuel tank entry and exit procedures, clean working environment, what is meant by configuration control, wire separation, bonding of components etc,

vii) Flammability reduction systems when installed: reason for their presence, their effects, the hazards of a Flammability Reduction System (FRS), using nitrogen for maintenance, safety precautions in maintenance/working with an FRS,

viii) Recording maintenance actions, recording measures and results of inspections.

The training should include a representative number of examples of defects and the associated repairs as required by the TC / STC holders maintenance data.

F) Approval of training

For CAR M. Subpart G approved organisations the approval of the initial and continuation training programme and the content of the examination can be achieved by the change of the CAME exposition. The modification of the CAME should be approved as required by CAR M. 704(b). The necessary changes to the CAME to meet the content of this decision should be made and implemented at the time requested by the GCAA.
Organisational reviews may replace a full quality system in accordance with the provisions of CAR M.712(f) and AMC CAR M.712(f) and as described in the continuing airworthiness management exposition (CAME)

Depending on the complexity of the small organisation (number and type of aircraft, number of different fleets, privilege to perform airworthiness reviews, etc.), the organisational review system may vary from a system using the principles and practices of a quality system (except for the requirement of independence) to a simplified system adapted to the low complexity of the organisation and the aircraft managed.

As a core minimum, the organisational review system should have the following features, which should be described in the CAME:

a. Identification of the person responsible for the organisational review programme:

   By default, this person should be the accountable manager, unless he delegates this responsibility to (one of) the CAR M.706(c) person(s).

b. Identification and qualification criteria for the person(s) responsible for performing the organisational reviews:

   These persons should have a thorough knowledge of the regulations and of the continuing airworthiness management organisation (CAMO) procedures. They should also have knowledge of audits, acquired through training or through experience (preferably as an auditor, but also possibly because they actively participated in several audits conducted by the GCAA).

c. Elaboration of the organisational review programme:

   • Checklist(s) covering all items necessary to be satisfied that the organisation delivers a safe product and complies with the regulation. All procedures described in the CAME should be addressed.
   • A schedule for the accomplishment of the checklist items. Each item should be checked at least every 12 months. The organisation may choose to conduct one full review annually or to conduct several partial reviews.

d. Performance of organisational reviews:

   Each checklist item should be answered using an appropriate combination of:

   • review of records, documentation, etc.
   • sample check of aircraft under contract.
   • interview of personnel involved.
   • review of discrepancies and difficulty internal reports (e.g., notified difficulties in using current procedures and tools, systematic deviations from procedures, etc.).
   • review of complaints filed by customers.
e. Management of findings and occurrence reports:

- All findings should be recorded and notified to the affected persons.
- All level 1 findings, in the sense of CAR M.716(a), should be immediately notified to the GCAA and all necessary actions on aircraft in service should be immediately taken.
- All occurrence reports should be reviewed with the aim for continuous improvement of the system by identifying possible corrective and preventive actions. This should be done in order to find prior indicators (e.g., notified difficulties in using current procedures and tools, systematic deviations from procedures, unsafe behaviours, etc.), and dismissed alerts that, had they been recognised and appropriately managed before the event, could have resulted in the undesired event being prevented.
- Corrective and preventive actions should be approved by the person responsible for the organisational review programme and implemented within a specified time frame.
- Once the person responsible for the organisational review programme is satisfied that the corrective action is effective, closure of the finding should be recorded along with a summary of the corrective action.
- The accountable manager should be notified of all significant findings and, on a regular basis, of the global results of the organisational review programme.

Following is a typical example of a simplified organisational review checklist, to be adapted as necessary to cover the CAME procedures:

1 – Scope of work

- All aircraft under contract are covered in the form AWF-ARC-014.
- The scope of work in the CAME does not disagree with the form AWF-ARC-014.
- No work has been performed outside the scope of the form AWF-ARC-014 and the CAME.
- Is it justified to retain in the approved scope of work aircraft types for which the organisation has no longer aircraft under contract?

2 – Airworthiness situation of the fleet

- Does the continuing airworthiness status (AD, maintenance programme, life limited components, deferred maintenance, ARC validity) show any expired items? If so, are the aircraft grounded?

3 – Aircraft maintenance programme

- Check that all revisions to the TC/STC holders Instructions for Continuing Airworthiness, since the last review, have been (or are planned to be) incorporated in the maintenance programme, unless otherwise approved by the GCAA.
- Has the maintenance programme been revised to take into account all modifications or repairs impacting the maintenance programme?
- Have all maintenance programme amendments been approved at the right level (GCAA or indirect approval)?
• Does the status of compliance with the maintenance programme reflect the latest approved maintenance programme?

• Has the use of maintenance programme deviations and tolerances been properly managed and approved?

4 – Airworthiness Directives (and other mandatory measures issued by the GCAA)

• Have all ADs issued since the last review been incorporated into the AD status?

• Does the AD status correctly reflect the AD content: applicability, compliance date, periodicity...? (sample check on ADs)

5 – Modifications/repairs

• Are all modifications/repairs listed in the corresponding status approved in accordance with CAR M.304? (sample check on modifications/repairs)

• Have all the modifications/repairs which have been installed since the last review been incorporated in the corresponding status? (sample check from the aircraft/component logbooks)

6 – Relations with the owners/operators

• Has a contract (in accordance with Annex I to CAR M) been signed with each external owner/operator, covering all the aircraft whose airworthiness is managed by the CAMO?

• Have the owners/operators under contract fulfilled their obligations identified in the contract? As appropriate:
  o Are the pre-flight checks correctly performed? (interview of pilots)
  o Are the technical log or equivalent correctly used (record of flight hours/cycles, defects reported by the pilot, identification of what maintenance is next due etc.)?
  o Did flights occur with overdue maintenance or with defects not properly rectified or deferred? (sample check from the aircraft records)
  o Has maintenance been performed without notifying the CAMO (sample check from the aircraft records, interview of the owner/operator)?

7 – Personnel

• Check that the current accountable manager and other nominated persons are correctly identified in the approved CAME.

• If the number of personnel has decreased or if the activity has increased, check that the organisation still has sufficient staff.

• Check that the qualification of all new personnel (or personnel with new functions) has been appropriately assessed.

• Check that the staff has been trained, as necessary, to cover changes in:
  o regulations,
  o GCAA publications,
  o the CAME and associated procedures,
  o the approved scope of work,
8 – Maintenance contracted

- Sample check of maintenance records:
  - Existence and adequacy of the work order,
  - Data received from the maintenance organisation:
    - Valid CRS including any deferred maintenance
    - List of removed and installed equipment and copy of the associated Form 1 or equivalent.
  - Obtain a copy of the current approval certificate (Form 3) of the maintenance organisations contracted.

9 – Technical records and record-keeping

- Have the certificates (Form 1 and Conformity certificates) been properly collected and recorded?
- Perform a sample check of technical records to ensure completeness and storage during the appropriate periods.
- Is storage of computerised data properly ensured?

10 – Occurrence reporting procedures

- Check that reporting is properly performed,
- Actions taken and recorded.

11 – Airworthiness review
CAR M GUIDANCE MATERIAL CONTINUING AIRWORTHINESS MANAGEMENT ORGANISATION APPROVALS

THIS DOCUMENT CONTAINS GUIDANCE MATERIAL RELATING TO THE APPROVAL AND OVERSIGHT OF CONTINUING AIRWORTHINESS MANAGEMENT ACTIVITIES FOR CAR M CONTINUING AIRWORTHINESS MANAGEMENT ORGANISATIONS BASED IN THE UAE AND OUTSIDE THE UAE
1. PURPOSE

The purpose of this guidance material is to provide information to organisations on:
- How to process various applications,
- Detail information on the GCAA process involved,
- Additional information regarding the GCAA requirements for holding a CAR M approval.

2. INTRODUCTION

The GCAA CAR M Regulation establishes common technical requirements and administrative procedures for ensuring the continuing airworthiness of aircraft, including any component for installation thereto, which are:

a) registered in the United Arab Emirates Civil Aircraft Registry; or
b) registered in a third country and used by a United Arab Emirates operator where the UAE GCAA has assumed responsibility for the oversight of the continued airworthiness management functions of such an aircraft.

This Appendix is designed to guide organisations applying for the initial issue, renewal or change of a GCAA CAR M approval. It also includes additional information on the way the GCAA intends to conduct its business with regard to the management and oversight of CAR M approval holders and the privileges that they may be granted as part of the approval held.

3. GUIDANCE TO CAR M.101

The UAE Civil Aviation Law – Article 30 states that the GCAA “shall approve national or foreign enterprises engaged in the maintenance and overhaul of aircraft registered in the State”.

This Article 30 mandates the enforcement of UAE CAR M regulation as prescribed by CAR M.101: This Section establishes the measures to be taken to ensure that airworthiness is maintained, including maintenance. It also specifies the conditions to be met by the persons or organisations involved in such continuing airworthiness management.
4. **APPLICABILITY:**

This guidance material is applicable to all CAR M approval holders (see Note below).

For organisations based in the UAE applying for issuance/renewal/change of a CAR M Approval – Refer to Section A, B or C.

For organisations based outside the UAE applying for issuance/renewal/change of a CAR M Approval – Refer to Section D, E or F.

**Note:** for CAR M subpart F please refer to CAR 145 Guidance Material.

For inquiries relating to CAR M Approval, please email: carm@gcaa.gov.ae or Tel: +971 4 2111610.
SECTION A – APPLICATIONS FOR INITIAL ISSUANCE OF A CAR M APPROVAL FOR ORGANISATIONS LOCATED IN THE UAE

Applicable to applications for initial ISSUANCE of a CAR M Approval for organisations located in the UAE which are either stand alone or part of an Operator:

For Initial application the GCAA shall require the organisation to comply with the following:

Application:


CAUTION 1:

The GCAA shall not process any application until the Security Clearance is issued, in some cases this is the same clearance required for the AOC. It is the responsibility of the organisation to process and complete the application with the GCAA Security Affairs department and provide evidence of the approval, once issued. The GCAA is not liable for any delay arising from this application.


3) Subscribe to UAE GCAA publications including Civil Aviation Regulations (CARs). The organisation may apply through the GCAA web site: http://www.gcaa.gov.ae/en/epublication/Pages/default.aspx

4) Complete an application form AWF-ARC-14a for CAR M subpart G (available on the website/eservices - http://www.gcaa.gov.ae/en/pages/forms.aspx) Enter clearly the proposed Scope of Work in the Application Form. Refer to Appendix 1 to the Application Form for guidance and Appendix VI to CAR M – Organisation Approval Class & Rating System. Submit the completed application form by email to: carm@gcaa.gov.ae and mail a hard copy to: General Civil Aviation Authority, Airworthiness Department, P. O. Box 30500, Dubai, UAE.

5) Reserved

6) Submit the application(s) for nominated post holder(s) using GCAA Form GTF-NPA-001 (available on the website/e-services - http://www.gcaa.gov.ae/en/pages/forms.aspx) together with copies of the applicant’s CV, Employment Contract, Residence Visa and evidence of their qualification for the role. GCAA CAR M approval requires nominated senior staff, namely the Continuing Airworthiness Manager and Quality Manager, to be approved by the GCAA. A person or group of persons should represent the continuing airworthiness management structure of the organisation and be responsible for all continuing airworthiness functions. Dependent on the size of the operation and the organisational set-up, the continuing airworthiness functions may be divided under individual managers or combined in nearly any number of ways. However, if a quality system is in place it should be independent from the other functions and must be
defined in the CAME. This person or group of persons should only be employed by a contracted CAR 145 organisation under exceptional circumstances and only if accepted by the GCAA. Qualification requirements for the approval of personnel are contained in CAR M.706 and AMC CAR M.706. The approval of these nominated persons is crucial for issuance of the CAR M Approval, and as such only appropriately qualified persons should be nominated.

In the case of a CAR M. Subpart G organisations intending to hold Subpart I privileges, an application form should also be submitted for the person or persons whom it is intended will be approved to carry out airworthiness reviews. Requirements for the approval of those personnel are contained in CAR M.707 and AMC CAR M.707.

Acceptance of the Accountable Manager will be approval of the Continuing Airworthiness Management Exposition with their signature on the Accountable Manager’s statement.

7) In the case of a stand-alone organisation, submit a copy of the valid Trade License from the local authority for GCAA records. The Trade License should state clearly the type of activity.

8) Submit a draft continuing airworthiness management exposition (CAME) with application form GTF-AMA-001 (available on the GCAA website: http://www.gcaa.gov.ae/en/pages/forms.aspx). Refer CAR M.704, AMC 704 and Appendix 1 to AMC CAR M.704 for guidance in preparing the draft CAME.

9) Submit a technical log, aircraft maintenance programme and minimum equipment list for each aircraft type applied for to obtain GCAA approval.

Process:

NOTE: GCAA may elect to hold informal meetings/discussions with the organisation during the security clearance process only to clarify and address their inquiries.

1. When the application package is received, the GCAA will assess the application to ensure adequacy of the documentation and satisfactory compliance with CAR M application regulations. The GCAA shall advise the organisation within 5 working days if any additional documentation is required.

   NOTE: The full evaluation/assessment of the application will not be completed until all of the required documents have been provided.

2. The Draft CAME will be reviewed by the GCAA and feedback will be provided to the organisation within 2 weeks from the date of the submission of the CAME.

   NOTE: the CAME will not be approved until the satisfactory completion of the issue process.

3. Once the CAME is approved, the organisation is required to provide an electronic CD copy of the approved CAME, complete with the GCAA approval page, for the GCAA to upload into the Q Pulse documents module.
4. The evaluation/interview of nominated persons, who have applied in accordance with item 6) above, will be completed by the GCAA. The scheduling for the interview(s), is subject to agreement with the organisation to ensure that employment formalities have been completed. The approval of the nominated persons will be issued upon satisfactory completion of the evaluation/interview.

5. In preparation for the audit, checklist AWF-ARC-002 should be completed and submitted to the GCAA by the applicant, showing how the organisation complies with all relevant parts of the CAR M requirements. This checklist can be downloaded from the GCAA website at http://www.gcaa.gov.ae/en/pages/forms.aspx.

6. A pre-audit meeting between the organisation’s senior staff and the GCAA may be required to determine the organisation’s level of readiness. The organisation will also be required to demonstrate readiness by submitting an audit report carried out by its own quality assurance auditors or independent auditors, on the organisational compliance with GCAA CAR M requirements.

7. The GCAA will decide with the organisation, a suitable plan to audit the organisation’s proposed Scope of Work. The organisation is required to provide access for GCAA Inspector(s) to the facility to perform this audit and any other visits relating to the approval. Following the audit, an audit report will be generated in the Q-Pulse system including any findings identified. The organisation is responsible for submitting an action plan/resolution to close any audit findings to the satisfaction of the GCAA, prior to any approval being granted.

8. The GCAA principle Airworthiness Inspector assigned to the organisation will process and issue the AWF-ARC-003 recommendation to the Manager Air Operators and CAMO after the closure of the audit, approval of all required postholders and documents, and satisfactory compliance with the CAR M requirements. Upon acceptance of the recommendation, the CAR M Subpart G Approval Certificate shall be issued within 5 working days.
SECTION B - APPLICATIONS FOR RENEWAL OF A CAR M APPROVAL FOR ORGANISATIONS LOCATED IN THE UAE

Applicable to applications for RENEWAL of a CAR M Approval for organisations located in the UAE:

Application:

1. The organisation shall prepare the renewal package 45 days before the expiry of the approval. Complete an application form AWF-ARC-14a for CAR M subpart G (available on the website/eservices - http://www.gcaa.gov.ae/en/pages/forms.aspx) Refer to Appendix 1 of the application form for guidance. Submit the completed application form by email to: carm@gcaa.gov.ae and mail a hard copy to: General Civil Aviation Authority, Airworthiness Department, P. O. Box 30500, Dubai, UAE.

2. Reserved

NOTE: For ease of processing the CAR M Organisation must submit separate applications for renewal and changes of Ratings. Refer to section C for extension procedures.

Process:

1. When the application is received, the GCAA will assess the application, to ensure adequacy of the documentation and satisfactory compliance with CAR M application regulations. The GCAA shall inform the organisation within 5 working days if any additional documentation is required.

   NOTE: The full evaluation/assessment of the application will not be completed until all of the required documents have been provided.

2. Once received the assigned GCAA Airworthiness Inspector will carry out a review of Q Pulse to ensure that there are no overdue or open Level 1 CAR M audit findings.

3. The principle Airworthiness Inspector will process and issue the AWF-ARC-003 recommendation to the Manager Air Operators and CAMO, for the Renewal of the CAR M Subpart G Approval. The certificate will be renewed within 5 working days once all outstanding matters are closed.

4. The Organisation is responsible for checking with the GCAA principle Airworthiness Inspector (PAI) that the CAR M Renewal has been completed on time. This is to ensure that the organisation is operating with a valid CAR M approval.
SECTION C - APPLICATIONS FOR CHANGE OF A CAR M APPROVAL FOR ORGANISATIONS LOCATED IN THE UAE

Applicable to applications for CHANGE of a CAR M Approval for organisations located in the UAE:

Organisations located in the UAE applying for a change to their CAR M approval, shall submit an application indicating the extent of the change being requested (see NOTE).

NOTE: Application for Extension of CAR M Approval – may cover any of the following:
- Addition of Subpart I privileges
- Addition or removal of an aircraft type(s)
- Change of approved location

Application:

   Enter clearly the proposed Scope of Work in the Application Form. Refer to Appendix 1 to the Application Form for guidance and Appendix VI to CAR M – Organisation Approval Class & Rating System. Submit the completed application form by email to: carm@gcaa.gov.ae and mail a hard copy to: General Civil Aviation Authority, Airworthiness Department, P. O. Box 30500, Dubai, UAE.

2) Submit a Draft amendment to the CAME with the proposed changes and any other relevant documents/internal procedures affected by this amendment through Q Pulse.

3) Submit the necessary supporting evidence for the proposed extension of the scope of work covering the following requirements:
   - Technical log, aircraft maintenance programme and minimum equipment list for each new type applied for,
   - Availability of trained manpower,
   - Proposed Airworthiness Review staff details to be submitted on form GTF-NPA-001
   - Maintenance data and related documents,
   - Facility, as applicable, and
   - Others, as may be required by the GCAA.

4) Reserved

5) The GCAA may be required to carry out an audit to establish compliance with CAR M regulations before approval of the change is granted. An audit will not normally be required if the scope of an approval is being reduced.

Process:

1. When the application package is received, the GCAA will assess the application, to ensure adequacy of the documentation and satisfactory compliance with CAR M application regulations.
The GCAA shall inform the organisation within 5 working days from the date of application if any additional documentation is required.

Note: - the full evaluation/assessment of the application will not be completed until all of the required documents have been provided.

2. The GCAA shall advise the organisation within 2 weeks of the acceptance/rejection of the submitted CAME changes.

3. The evaluation/interview of any new nominated person(s) and Airworthiness Review signatories, who have applied in accordance with Section A item 3 above, will be completed by the GCAA. The scheduling for the interview(s), is subject to agreement with the organisation to ensure that employment formalities have been completed. The approval of the nominated persons will be issued upon satisfactory completion of the evaluation/interview.

Note: - Item 3 above only relates to changes of nominated persons necessitated by a change of approval scope. A change that solely relates to the replacement of a nominated person should be dealt with through an amendment to the CAME and submission of form GTF-NPA-001 for the proposed replacement.

4. If the application relates to an increase in the scope of approval or a change of approved location an audit will be required. In preparation for the audit, checklist AWF-ARC-002 should be completed and submitted to the GCAA by the applicant, showing how the organisation complies with all relevant parts of CAR M requirements. This checklist can be downloaded from the GCAA website at http://www.gcaa.gov.ae/en/pages/forms.aspx.

5. A pre-audit meeting between the organisation’s senior staff and the GCAA may be required to determine the organisation’s level of readiness. The organisation will also be required to demonstrate readiness by submitting an audit report carried out by its own quality assurance auditors or independent auditors, on the organisational compliance with GCAA CAR M requirements.

6. The GCAA will decide with the organisation, a suitable plan to audit the organisation’s proposed revised Scope of Work. The organisation is required to provide access for GCAA Inspector(s) to the facility to perform this audit and any other visits relating to the approval. Following the audit, an audit report will be generated in the Q-Pulse system including any findings identified. The organisation is responsible for submitting an action plan/resolution to close any audit findings to the satisfaction of the GCAA prior to any approval of the changes being granted.

The GCAA principle Airworthiness Inspector assigned to the organisation will process and issue the AWF-ARC-003 recommendation to the Manager Air Operators and CAMO after the closure of the audit, approval of all required postholders and documents, and satisfactory compliance with the CAR M requirements. Upon acceptance of the recommendation, the CAR M Subpart G Approval Certificate shall be issued within 5 working days.
SECTION D - APPLICATIONS FOR INITIAL ISSUANCE OF A CAR M APPROVAL FOR ORGANISATIONS LOCATED OUTSIDE THE UAE

Applicable to applications for initial ISSUANCE of a CAR M Approval for organisations located outside the UAE:

Organisations based outside the UAE are required to be approved by the GCAA, whenever they carry out oversight of the continuing airworthiness of individual aircraft and the issue of recommendations for airworthiness review certificates for aircraft registered in the UAE, and are either contracted in accordance with CAR M.201(e) and (i), or sub-contracted in accordance with CAR M.201(f), (h) and (i).

CAUTION 2:
It is important that the organisation is aware of the requirements stipulated in GCAA CAR M and any related Information Bulletins (IB).

For inquiries relating to CAR M Approval, please email: carm@gcaa.gov.ae or Tel: +971 4 2111610.

NOTE:
The GCAA may accept, on a case by case basis, an EASA Part M CAMO Approval issued to an organisation located outside the UAE as a basis for issuing the GCAA CAR M Approval.

For Initial application the GCAA shall require the organisation to comply with the following:

Application:


2) Subscribe to UAE GCAA publications including Civil Aviation Regulations (CARs). The organisation may apply through the GCAA web site:
   http://www.gcaa.ae/en/epublication/Pages/default.aspx

   Enter clearly the proposed Scope of Work in the Application Form. Refer to Appendix 1 to the Application Form for guidance and Appendix VI to CAR M – Organisation Approval Class & Rating System. Submit the completed application form by email to: carm@gcaa.gov.ae and mail a hard copy to: General Civil Aviation Authority, Airworthiness Department, P. O. Box 30500, Dubai, UAE.

4) Reserved

5) Submit the application(s) for nominated post holder(s) using GCAA Form GTF-NPA-001 (available on the website/e-services - http://www.gcaa.gov.ae/en/pages/forms.aspx), together with copies of the applicant’s CV, evidence of continued EASA post holder approval if applicable, and evidence of their qualification for the role. GCAA CAR M approval requires nominated senior staff, namely
the Continuing Airworthiness Manager and Quality Manager, to be approved by the GCAA. A person or group of persons should represent the continuing airworthiness management structure of the organisation and be responsible for all continuing airworthiness functions. Dependent on the size of the operation and the organisational set-up, the continuing airworthiness functions may be divided under individual managers or combined in nearly any number of ways. However, if a quality system is in place it should be independent from the other functions and must be defined in the CAME. This person or group of persons should only be employed by a contracted CAR 145 organisation under exceptional circumstances and only if accepted by the GCAA. Qualification requirements for the approval of personnel are contained in CAR M.706 and AMC CAR M.706. The approval of these nominated persons is crucial for issuance of the CAR M Approval, and as such only appropriately qualified persons should be nominated.

In the case of a CAR M Subpart G organisation located outside the UAE, CAR M Subpart I privileges will not be granted. However the organisation will be able to recommend the renewal of an Airworthiness Review Certificate to the GCAA. This will be based upon a review process being carried out and the recommendation being signed by the Continuing Airworthiness Manager or an EASA member state approved Airworthiness Review signatory.

Acceptance of the Accountable Manager will be approval of the Continuing Airworthiness Management Exposition with their signature on the Accountable Manager’s statement.


Refer CAR M.704, AMC 704 and Appendix 1 to AMC CAR M.704 for guidance in preparing the CAME.

Organisations which hold EASA Part M approval shall submit a copy of the EASAS member state approved Continuing Airworthiness Management Exposition (CAME) at the latest revision status, preferably in CD Format. Such organisations will also be required to submit a GCAA CAME Supplement for review and approval. Refer to appendix 2 for the required layout.

7) Submit a baseline or generic aircraft maintenance programme each aircraft type applied for to obtain GCAA approval.

8) The organisation must liaise with the operator who intends to use the organisation’s services. The operator must be requested to submit to the GCAA, the Quality Assurance department’s satisfactory assessment audit report(s) and recommendation(s) on the capability of the contracted organisation to provide the intended scope of work. The operator will also be required to submit a copy of the contract/sub-contract for approval including any interface procedures. In addition the applicant will also need to submit the following:

- A copy of the organisations EASA member state Part M approval certificate (if held),
- Details of approved management personnel and airworthiness review staff,
- Evidence of access to the operator’s records, maintenance data and related documents,
- Records of training for all staff confirming provision of awareness training for operators’ procedures,
- A copy of the applicants quality department audit covering CAR M requirements along with a copy of checklist AWF-ARC-002, and
- Any other documents/reports etc. as may be required by the GCAA (see CAUTION 3).

**CAUTION 3:** The operator’s QA assessment/recommendation letter submitted to GCAA, shall identify the aircraft types/capability which the organisation shall be approved for. Failure to provide the operator’s QA recommendation may result in the delay of the approval or exclusion of types of aircrafts applied for. On a case by case basis, the GCAA may exercise the discretion to accept the operator’s QA assessment as an alternative to an immediate GCAA audit.

9) Submit evidence of organisation ARC staff compliance. This requirement may be satisfied by supplying copies of certifying staff Authorisation, issued to the staff in accordance with the procedure defined in the CAME.

10) Audit by UAE GCAA Inspector(s). The GCAA shall audit the facility prior to granting CAR M approval for which prior notice shall be served. The organisation shall be responsible to bear the cost of the audit and any periodic audit conducted by the GCAA in order to maintain the validity of the approval. The organisation must also facilitate access for GCAA personnel to the facility for the purpose of conducting audits and any matters relating to the approval.

**Process:**

**NOTE:** GCAA may elect to hold informal meetings/discussions with the organisation ahead of receipt of an application only to clarify and address their inquiries.

1. When the application package is received, the GCAA will assess the application to ensure adequacy of the documentation and satisfactory compliance with CAR M application regulations. The GCAA shall advise the organisation within 5 working days if any additional documentation is required.

**NOTE:** The full evaluation/assessment of the application will not be completed until all of the required documents have been provided.

2. The draft CAME/EASA approved CAME and Supplement will be reviewed by the GCAA and feedback will be provided to the organisation within 2 weeks from the date of submission.

**NOTE:** the CAME will not be approved until the satisfactory completion of the issue process.

3. Once the CAME/Supplement is approved, the organisation is required to provide an electronic CD copy of the approved CAME, complete with the GCAA approval page, for the GCAA to upload into the Q Pulse documents module.

4. The evaluation/interview of nominated persons, who have applied in accordance with item 6 above, will be completed by the GCAA. The scheduling for the interview(s), is subject to agreement
with the organisation, and may be carried out during the audit visit. The approval of the nominated persons will be issued upon satisfactory completion of the evaluation/interview.

5. In preparation for the audit, checklist AWF-ARC-002 should be completed and submitted to the GCAA by the applicant, showing how the organisation complies with all relevant parts of the CAR M requirements. This checklist can be downloaded from the GCAA website at http://www.gcaa.gov.ae/en/pages/forms.aspx.

6. A pre-audit meeting between the organisation’s senior staff and the GCAA may be required to determine the organisation’s level of readiness. The organisation will also be required to demonstrate readiness by submitting an audit report carried out by its own quality assurance auditors or independent auditors, on the organisational compliance with GCAA CAR M requirements.

7. The GCAA will decide with the organisation, a suitable plan to audit the organisation’s proposed Scope of Work. The organisation is required to provide access for GCAA Inspector(s) to the facility to perform this audit and any other visits relating to the approval. Following the audit, an audit report will be generated in the Q-Pulse system including any findings identified. The organisation is responsible for submitting an action plan/resolution to close any audit findings to the satisfaction of the GCAA, prior to any approval being granted.

8. The GCAA principle Airworthiness Inspector assigned to the organisation will process and issue the AWF-ARC-003 recommendation to the Manager Air Operators and CAMO after the closure of the audit, approval of all required post holders and documents, and satisfactory compliance with the CAR M requirements. Upon acceptance of the recommendation, the CAR M Subpart G Approval Certificate shall be issued within 5 working days.
SECTION E - APPLICATIONS FOR RENEWAL OF A CAR M APPROVAL FOR ORGANISATIONS LOCATED OUTSIDE THE UAE

Applicable to applications for RENEWAL of a CAR M Approval for organisations located outside the UAE:

Application:

1) The organisation shall prepare the renewal package 45 days before the expiry of the approval. Complete an application form AWF-ARC-14a for CAR M subpart G (available on the website/eservices - http://www.gcaa.gov.ae/en/pages/forms.aspx)

Refer to Appendix 1 of the application form for guidance. Submit the completed application form by email to: carm@gcaa.gov.ae and mail a hard copy to: General Civil Aviation Authority, Airworthiness Department, P. O. Box 30500, Dubai, UAE.

2) Reserved

NOTE:
For ease of processing the CAR M Organisation must submit separate applications for Renewal and Change of Ratings. Refer to section F for extension procedures.

Process:

1. When the application is received, the GCAA will assess the application, to ensure adequacy of the documentation and satisfactory compliance with CAR M application regulations. The GCAA shall inform the organisation within 5 working days if any additional documentation is required.

   NOTE: The full evaluation/assessment of the application will not be completed until all of the required documents have been provided.

2. Once received the assigned GCAA Airworthiness Inspector will carry out a review of Q Pulse to ensure that there are no overdue or Level 1 CAR M audit findings.

3. The principle Airworthiness Inspector will issue a AWF-ARC-003 recommendation to the Manager Air Operators and CAMO, for the Renewal of the CAR M Subpart G Approval. The certificate will be renewed within 5 working days once all outstanding matters are closed.

4. The Organisation is responsible for checking with the GCAA principle airworthiness inspector (PAI) that the CAR M Renewal has been completed on time. This is to ensure that the organisation is operating with a valid CAR M approval.
SECTION F - APPLICATIONS FOR CHANGE OF CAR M APPROVAL FOR ORGANISATIONS LOCATED OUTSIDE THE UAE

Applicable to applications for CHANGE of CAR M Approval for organisations located outside the UAE:

Organisations located outside the UAE applying for a change to their CAR M approval, shall submit an application indicating the extent of the change being requested: (see NOTE)

NOTE: Application for Extension of CAR M Approval – may cover any of the following:

- Addition or removal of an aircraft type(s)
- Change of approved location

Application:

1) Complete an application form AWF-ARC-14a (available on the GCAA website/e-Services – http://www.gcaa.gov.ae/en/pages/forms.aspx)
   Enter clearly the proposed Scope of Work in the Application Form. Refer to Appendix 1 to the Application Form for guidance and Appendix VI to CAR M – Organisation Approval Class & Rating System. Submit the completed application form by email to: carm@gcaa.gov.ae and mail a hard copy to: General Civil Aviation Authority, Airworthiness Department, P. O. Box 30500, Dubai, UAE.

2) Submit a Draft amendment to the CAME with the proposed changes and any other relevant documents/internal procedures affected by this amendment through Q.Pulse.

3) Submit the necessary supporting evidence for the proposed extension of the scope of work covering the following requirements:
   - Technical log, aircraft maintenance programme and minimum equipment list for each new type applied for availability of trained manpower and/or ARC staff,
   - Maintenance data and related documents,
   - Facility, as applicable, and
   - Others, as may be required by the GCAA.

4) Reserved

5) The organisation must liaise with the operator who intends to use the organisation’s services. The operator must be requested to submit to the GCAA, the Quality Assurance department’s satisfactory assessment audit report(s) and recommendation(s) on the capability of the contracted organisation to provide the intended scope of work. The operator will also be required to submit a copy of the contract/sub-contract for approval including any interface procedures. In addition the applicant will also need to submit the following:
   - A copy of the organisations EASA member state Part M approval certificate (if held),
   - Details of approved management personnel and airworthiness review staff,
   - Evidence of access to the operator’s records, maintenance data and related documents,
- Records of training for all staff confirming provision of awareness training for operators’ procedures,
- A copy of the applicants quality department audit covering CAR M requirements along with a copy of checklist AWF-ARC-002, and
- Any other documents/reports etc. as may be required by the GCAA (see CAUTION 4).

**CAUTION 4:**
The operator’s QA assessment/recommendation letter submitted to GCAA, shall identify the aircraft types/capability which the organisation shall be approved for. Failure to provide the operator’s QA recommendation may result in the delay of the approval or exclusion of types of aircrafts applied for. On a case by case basis, the GCAA may exercise the discretion to accept the QA assessment as an alternative to an immediate GCAA audit.

6) Submit evidence of organisation ARC staff compliance. This requirement may be satisfied by supplying copies of certifying staff Authorisation, issued to the staff in accordance with the procedure defined in the CAME.

7) The GCAA may be required to carry out an audit to establish compliance with CAR M regulations before approval of the change is granted. An audit will not normally be required if the scope of an approval is being reduced. The organisation shall be responsible to bear the cost of the audit.

**PROCESS:**

1. When the application package is received, the GCAA will assess the application, to ensure adequacy of the documentation and satisfactory compliance with CAR M application regulations. The GCAA shall inform the organisation within 5 working days from the date of application if any additional documentation is required.

   Note: - the full evaluation/assessment of the application will not be completed until all of the required documents have been provided.

2. The GCAA shall advise the organisation within 2 weeks of the acceptance/rejection of the submitted CAME changes.

3. The evaluation/interview of any new nominated person(s), who have applied in accordance with Section A item 6 above, will be completed by the GCAA. The scheduling for the interview(s), is subject to agreement with the organisation to ensure that employment formalities have been completed. The approval of the nominated persons will be issued upon satisfactory completion of the evaluation/interview.

4. If the application relates to an increase in the scope of approval or change of approved location an audit will be required. In preparation for the audit, checklist AWF-ARC-002 should be completed and submitted to the GCAA by the applicant, showing how the organisation complies with all relevant parts of CAR M requirements. This checklist can be downloaded from the GCAA website at [http://www.gcaa.gov.ae/en/pages/forms.aspx](http://www.gcaa.gov.ae/en/pages/forms.aspx).
5. A pre-audit meeting between the organisation’s senior staff and the GCAA may be required to determine the organisation’s level of readiness. The organisation will also be required to demonstrate readiness by submitting an audit report carried out by its own quality assurance auditors or independent auditors, on the organisational compliance with GCAA CAR M requirements.

6. The GCAA will decide with the organisation, a suitable plan to audit the organisation’s proposed revised Scope of Work. The organisation is required to provide access for GCAA Inspector(s) to the facility to perform this audit and any other visits relating to the approval. Following the audit, an audit report will be generated in the Q-Pulse system including any findings identified. The organisation is responsible for submitting an action plan/resolution to close any audit findings to the satisfaction of the GCAA prior to any approval of the changes being granted.

The GCAA principle Airworthiness Inspector assigned to the organisation will process and issue the AWF-ARC-003 recommendation to the Manager Air Operators and CAMO after the closure of the audit, approval of all required post holders and documents, and satisfactory compliance with the CAR M requirements. Upon acceptance of the recommendation, the CAR M Subpart G Approval Certificate shall be issued within 5 working days.
SECTION H - TECHNICAL LOG APPROVAL PROCEDURES

A technical log system is required to be established by an operator and be approved by the GCAA. The technical log system includes all 5 sections referred to in CAR M.306 and AMC M.306 and instructions to be used by flight crew and engineering personnel when completing the various sections to ensure compliance with CAR M.306.

Cabin or galley defects and malfunctions that affect the safe operation of the aircraft or the safety of its occupants are regarded as forming part of the aircraft log book where recorded by another means such as a cabin defects log.

1. Application

1.1 The operator shall apply to the GCAA for a technical log system approval using form GAF-AMA-001 Application for Aircraft/Organisation Manual Approval, enclosing a copy of the proposed draft technical log system and the operator’s instructions for completion of the technical log.

1.2 The airworthiness inspector may request a hard copy of the draft technical log page to facilitate document evaluation. As the GCAA AMC M.306 describes the exact format of the log book the airworthiness inspector shall ensure that all mandatory parameters are included in the operator’s technical log book.

1.3 Each section of the technical log should be identified and controlled by a unique form number and the revision status of the form.

2. Basic Contents of the Technical Log

The Technical Log Book shall contain the following:

2.1 A Title Page with the registered name and address of the Operator, the aircraft type and full registration marks of the aircraft;

2.2 A copy of the last scheduled line or base maintenance inspection Certificate of Release to Service, and a Maintenance Statement of the next inspection due, to comply with inspection cycle of the approved Maintenance Program, and any out-of-phase inspection or component change due before that time. In certain circumstances the GCAA may agree to the Maintenance Statement being kept elsewhere.

2.3 A section containing sector record pages. Each page shall be pre-printed with the Operator’s name and page serial number, and shall make provision for recording all of the parameters defined in AMC M.306(a).

2.4 A readily identifiable section, or a separate book, containing acceptable deferred defect record pages. Each page shall be pre-printed with the operator’s name and page serial number, and shall make provision for recording the following:
i. A cross reference for each deferred defect such that the original defect can be clearly identified in the sector record page,

ii. The original date of occurrence of the defect deferred,

iii. The details of the defect transferred verbatim from the original entry,

iv. A cross reference to the sector record page that contains the CRS for any investigation activity and/or rectification of the defect.

2.5 This section should provide up to date details of any in-house or contracted maintenance organisation(s) and the company procedures for contacting them should the aircraft commander experience technical difficulties away from a permanently supported location. If all communication is to be accomplished through a single point, such as a ‘Maintrol’ department, it is acceptable to only include procedures for communicating with this location.

3. Supplementary Technical Log Contents

3.1 It may be necessary to record additional information as may be required, for example, on helicopters and aging aircraft items for consideration may include:

i. Maximum or intermediate contingency power usage and duration

ii. The number of load lifts carried out between take-off and landing events

iii. The number of landings for the undercarriage or other component lives

iv. The number of pressure cycles if this is a factor in fuselage structural item lives.

4. Issuance of Technical Log Approval

4.1 When the Airworthiness Inspector is satisfied that the Technical Log system complies with GCAA requirements, he shall sign the applicable section in GAF-AMA-001 and forward it to the airworthiness assistants for preparing the approval control page.

4.2 Based on the airworthiness inspector’s acceptance, the airworthiness assistant shall prepare and print out the Approval Control Page for the Airworthiness Inspector’s signature. The control page should include the form number and revision status of each technical log section to ensure that any development of the technical log system can be properly tracked and subsequently approved.

4.3 The airworthiness inspector shall sign the approval control page and forward it to the airworthiness assistant who subsequently shall send the approval control page to the operator. Once received the operator should upload a copy of each approved section and the approval letter into Q Pulse for activation.

5. Amendment of the Technical Log

5.1 When an operator wants to amend the technical log system, either in part or in total, the Operator shall apply to the GCAA by uploading the amended page(s) into Q Pulse in the normal way.
5.2 When the Airworthiness Inspector is satisfied that the revised Technical Log system complies with GCAA requirements, he shall approve the amended pages within Q Pulse and activate them. He will then create an electronic approval page which should include the current form number and revision status of each technical log section, including those not updated as part of this process, to ensure that future development of the technical log system can be properly tracked and subsequently approved.

6. Approval of Electronic Technical Log Systems

6.1 When an operator wants to develop an electronic technical log as part of an electronic flight bag (EFB) system, the approval process will be broadly in line with the process described above but will also include approval of the hardware to be used and the installation of the equipment in the aircraft. Procedures will also need to be developed for:

i. The control of electronic forms within the EFB system,
ii. The management, limitation, control and security of electronic signatures for use by personnel authorised to do so within the EFB system,
iii. The transfer of data from, and back to, the operator’s continuing airworthiness management team,
iv. System security and the control of compatibility of updates within the EFB system to ensure that all elements remain uncorrupted as a result of any update that is carried out, including updates to databases contained within the EFB system,
v. Procedures for replacement of hardware to ensure system continuity.
SECTION I - AIRCRAFT CONTINUING AIRWORTHINESS PRODUCT AUDIT

The Aircraft Continuing Airworthiness Product Audit programme will monitor the airworthiness status of the UAE fleet and will include surveys of aircraft sampled. A programme will be developed each year taking into account the number and types of aircraft operated by each organisation, fleet development and past surveillance activities.

The product audit will focus on a number of key risk airworthiness elements, and any findings identified will be notified in writing to the operator for rectification via corrective and preventive action. Findings may be raised against any GCAA civil aviation requirement or regulation if identified as a part of this audit programme.

Findings from the annual audit programme will be analysed each year to identify any operator or national trends as areas of focus for the coming year.

Scope Of Product Audit

The GCAA will undertake sample product audits of aircraft on its register to verify that:

(a) the condition of an aircraft as sampled is to a standard acceptable for the Certificate of Airworthiness/Airworthiness Review Certificate to remain in force,
(b) the operator/owner’s management of the airworthiness of the aircraft is effective,
(c) the approvals and licenses granted to organisations and persons continue to be applied in a consistent manner to achieve the required standards.

Depth of Product Audit

An Aircraft Continuing Airworthiness Product Audit is a sample inspection of the key risk elements (KREs) that fully encompass selected aspects of the aircraft’s airworthiness. The following table provides guidance on KREs that can be used for planning and/or analysis of the inspections.

The survey should be a ‘deep cut’ through the elements or systems selected.

A physical inspection of the aircraft is necessary during each audit. Wherever possible, this should be an in-depth inspection, carried out during scheduled/extensive maintenance.

The record of the product audit should identify which KREs were inspected, what was observed and details of where findings have been identified.

Inspectors in conjunction with the operators and maintenance organisations should identify the root cause of each confirmed finding. When closing audit findings Inspectors should be satisfied that the root cause found and the corrective actions taken are adequate to correct the deficiency and to prevent re-occurrence.

Where the product audit visit can be linked to the oversight of an approved organisation then credit can be taken by the GCAA within the annual oversight process of that organisation.
Key Risk Elements

The following KREs should be used for aircraft continuing airworthiness monitoring:

(a) Type design and changes to type design  
(b) Airworthiness limitations  
(c) Airworthiness Directives  
(d) Aircraft documents  
(e) Flight Manual  
(f) Mass & Balance  
(g) Markings & placards  
(h) Operational requirements  
(i) Defect management  
(j) Aircraft Maintenance Programme  
(k) Component control  
(l) Repairs  
(m) Records

These KREs and their detailed components should be adapted to the complexity of the aircraft type being surveyed by retaining only those items that are applicable and relevant for the particular aircraft type.

The KREs define the scope of continuing airworthiness. The list of KREs is intended to provide the basis for planning and control of the ACAP audit programme. It will ensure that the programme covers all aspects of continuing airworthiness. While it is not required to cover all KREs during a given inspection, the ACAP audit programme needs to ensure that there is no omission, i.e. that certain KRE are never inspected.

Findings from the annual audit programme will be analysed each year to identify any operator or national trends as areas of focus for the coming year.
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<td><strong>A. Aircraft Configuration</strong></td>
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<td>A.2</td>
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<td><strong>B. Aircraft Operation</strong></td>
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<td><strong>C. Aircraft Maintenance</strong></td>
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<td>Aircraft Maintenance Programme</td>
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<td>C.2</td>
<td>Component control</td>
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- maintenance for which compliance is mandatory;
- maintenance for which compliance is recommended.

### C.3 Repairs

All repairs and unrepaired damage/degradations need to comply with the instructions of the appropriate maintenance manual (e.g. the SRM, the AMM, and/or the CMM). All repairs not defined in the appropriate maintenance manual need to be appropriately approved and recorded with the reference to the approval.

This includes any damage or repairs to the aircraft/engine(s)/propeller(s), and their components.

### C.4 Records

Continuing Airworthiness records are defined in CAR M.305 and CAR M.306, and related AMCs.

### A.1 Type design and changes to type design

The type design is the part of the approved configuration of a product, as laid down in the TCDS, common to all products of that type. Any changes to type design shall be approved and, for those embodied, shall be recorded with the reference to the approval.

#### Supporting information

The type design consists of:

1. the drawings and specifications, and a listing of those drawings and specifications, necessary to define the configuration and the design features of the product (i.e. the aircraft, its components, etc.) shown to comply with the applicable type-certification basis and environmental protection requirements;
2. information on materials and processes and on methods of manufacture and assembly of the product necessary to ensure the conformity of the product;
3. an approved Airworthiness Limitation Section (ALS) of the Instructions for Continued Airworthiness (ICA); and
4. any other data necessary to allow by comparison the determination of the airworthiness, the characteristics of noise, fuel venting, and exhaust emissions (where applicable) of later products of the same type.

The individual aircraft design is made of the type design supplemented with

#### Typical inspection items

1. Use the current type certificate data sheets (airframe, engine, propeller as applicable) and check that the aircraft conforms to its type design (correct engine installed, seat configuration, etc.).
2. Check that changes have been approved properly (approved data is used, and a direct relation to the approved data).
3. Check for unintentional deviations from the approved type design, sometimes referred to as concessions, divergences, or non-conformances, Technical Adaptations, Technical Variations, etc.
4. Check cabin configuration (LOPA).
5. Check for embodiment of STC’s, and, if any Airworthiness Limitations Section (ALS)/FM/MEL/WBM and revisions are needed, they have been approved and complied with.
   a. Aircraft S/N applicable
   b. Applicable engines
   c. Applicable APU
   d. Max. certified weights
   e. Seating configuration
   f. Exits
6. Check that the individual aircraft design/configuration is properly established and used as a reference.
changes to the type design (e.g., modifications) embodied on the considered aircraft. Depending on the product State of Design, Bilateral Agreements and/or Agency decisions on acceptance of certification findings exist and should be taken into account.

Reference documents:

- CAR 21.31
- CAR 21.41
- CAR 21.61
- CAR 21.90
- CAR M.304
- CAR M.305
- CAR M.401

A.2 Airworthiness limitations

An airworthiness limitation is a boundary beyond which an aircraft or a component thereof must not be operated, unless the instruction(s) associated with this airworthiness limitation is complied with.

Supporting information

Typical inspection items

1. Check that the Aircraft Maintenance Programme (AMP) reflects airworthiness limitations and associated instructions (standard or alternative) issued by the relevant design approval holders and are approved by the GCAA.
2. Check that the aircraft and the components thereof comply with the approved AMP.
3. Check the current status of life-limited parts. The current status of life-limited parts is to be maintained throughout the operating life of the part.
   - Typical Airworthiness Limitation items:
     - Safe Life ALI (SL ALI)/Life limited parts,
     - Damage Tolerant ALI (DT ALI)/Structure, including ageing aircraft structure,
     - Certification Maintenance Requirements (CMR),
     - Ageing Systems Maintenance (ASM), including Airworthiness Limitations for Electrical Wiring Interconnection System (EWIS),
     - Fuel Tank Ignition Prevention (FTIP)/Flammability Reduction Means (FRM),
     - CDCCL, check wiring if any maintenance carried out in same area
     - wiring separation,
### Ageing fleet inspections mandated through ALS or AD are included in the AMP.

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<td>• CAR 21.31</td>
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<td>• CAR 21.61</td>
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<td>• EASA CS 22.1529</td>
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<td>• EASA CS 23.1529, Appendix G, para. G25.4</td>
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<td>• CAR M.302</td>
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<td>• CAR M.305</td>
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### A.3 Airworthiness Directives

An Airworthiness Directive means a document issued or adopted by the Agency, which mandates actions to be performed on an aircraft to restore an acceptable level of safety, when evidence shows that the safety level of this aircraft may otherwise be compromised (CAR 21.38).

#### Supporting information

Any Airworthiness Directive issued by a State of Design for an aircraft imported from a third country, or for an engine, propeller, part or appliance imported from a third country and installed on an aircraft registered in UAE, shall apply unless the GCAA has issued a different Decision before the date of entry into force of that airworthiness directive.

1. Check if all ADs applicable to the airframe, engine(s), propeller(s) and equipment have been incorporated in the AD-status, including their revisions.
2. Check records for correct AD applicability (including ADs incorrectly listed as non-applicable).
3. Check by sampling in the current AD status that applicable ADs have been or are planned to be (as appropriate) carried out within the requirements of these Airworthiness Directives, unless otherwise specified by the State of Design (AMOC).
4. Check that applicable ADs related to maintenance are included into the Aircraft Maintenance Programme.
5. Check that task-cards correctly reflect AD requirements or refer to procedures and standard practises referenced in ADs.
6. Sample during a physical survey some ADs for which compliance can be physically checked.

#### Typical inspection items

<table>
<thead>
<tr>
<th>Reference documents:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• CAR 21.3B</td>
</tr>
<tr>
<td>• CAR 21.60</td>
</tr>
<tr>
<td>B.1</td>
</tr>
<tr>
<td>-----</td>
</tr>
<tr>
<td>Supporting information</td>
</tr>
<tr>
<td>The aircraft certificates and documents necessary for operations may include, but are not necessarily limited to: &lt;br&gt; - Certificate of Registration;  &lt;br&gt;- Certificate of Airworthiness;  &lt;br&gt;- Noise certificate;  &lt;br&gt;- Aircraft certificate of release to service;  &lt;br&gt;- Technical log book, if required;  &lt;br&gt;- Airworthiness Review Certificate;  &lt;br&gt;- Etc.</td>
</tr>
</tbody>
</table>

Reference documents:  <br>- CAR 21 Subpart H  <br>   - 21.175  <br>   - 21.177  <br>   - 21.182  <br>- CAR 21 Subpart I  <br>- CAR 21 Subpart P  <br>- CAR 21 Subpart Q  <br>   - 21.801  <br>   - 21.807  <br>- CAR M.201(a)(3)  <br>- CAR M.901
<table>
<thead>
<tr>
<th><strong>B.2</strong> Flight Manual</th>
<th>A manual, associated with the certificate of airworthiness, containing operational limitations, instructions and information necessary for the flight crew members for the safe operation of the aircraft.</th>
</tr>
</thead>
</table>

**Supporting information**

The Flight Manual needs to reflect the current status/configuration of the aircraft. When it does not, it may provide flight crew members with wrong information. This may lead to errors and/or to override limitations that could contribute to severe failure.

**Typical inspection items**

1. Check the conformity of the Flight Manual (FM), latest issue, with aircraft configuration, including modification status, (AD, SB, STC etc.).
2. Check:
   - the FM approval, revision control, Supplement to FM;
   - the impact of modification status on noise and weight & balance;
   - additional required manuals (QRH/FCOM/OM-B etc.);
   - FM limitations.

**Reference documents:**

- CAR 21.174(b), 2(iii), (b), 3(ii)
- CAR 21.204(b)(ii), (b)(i)
- CAR M. 305, AMC M. 305(d)
- CAR M.710(a), 2
- CAR M.710(c), 2
- AMC M.710(a), 1
- AMC M.901(d) and (g)
- AMC M.904(a) 2 (c) and (k)
- AMC M.904 (c)

<table>
<thead>
<tr>
<th><strong>B.3</strong> Mass &amp; balance</th>
<th>Mass and balance data is required to make sure the aircraft is capable of operating within the approved envelope.</th>
</tr>
</thead>
</table>

**Supporting information**

The mass and balance report needs to reflect the actual configuration of the aircraft. When it does not, the aircraft might be operated outside the certified operating envelope.

**Typical inspection items**

1. Check that mass and balance report is valid, considering current configuration.
2. Make sure that modifications and repairs are taken into account in the report.
3. Check that equipment status is recorded on the mass and balance report.
4. Compare current mass and balance report with previous report for consistency.

**Reference documents:**

- CAR M.305(d)5
- CAR M.708(b)(10)
- CAR M.710(a)(9), AMC M.A.710 (1)
- CAR OPS 1/3.605
### Markings & placards

Markings and placards are defined in the individual aircraft type design. Some information may also be found in the TCDS, the Supplemental Type Certificates (STC), the FM, the AMM, the IPC, etc.

<table>
<thead>
<tr>
<th>Supporting information</th>
<th>Typical inspection items</th>
</tr>
</thead>
<tbody>
<tr>
<td>Markings and placards on instruments, equipment, controls, etc. shall include such limitations or information as necessary for the direct attention of the crew during flight. Markings and placards or instructions shall be provided to give any information that is essential to the ground handling in order to preclude the possibility of mistakes in ground servicing (e.g. towing, refuelling) that could pass unnoticed and that could jeopardise the safety of the aircraft in subsequent flights. Markings and placards or instructions shall be provided to give any information essential in the prevention of passenger injuries. National registration markings must be installed. They include registration, possible flag, fireproof registration plate. Product data plates must be installed. When markings and placards are missing, or unreadable, or not properly installed, mistakes or aircraft damages may occur and could subsequently contribute to a severe failure.</td>
<td>1. Check that the required markings and placards are installed on the aircraft, especially the emergency exit markings instructions and passenger information signs and placards. 2. Check that all installed placards are readable. 3. Check the Flight Manual versus the instruments. (General Aviation usually). 4. Check registration markings, including State of Registry fireproof nameplate. 5. Check product data plates. Examples of markings &amp; placards: - door means of opening, - each compartment’s weight/load limitation/placards stating limitation on contents, - passenger information signs, including no smoking signs, - emergency exit marking, - pressurised cabin warning, - calibration placards, - cockpit placards and instrument markings, - O₂ system information data, - accesses to the fuel tanks with flammability reduction means (CDCCCL), - fuelling markings (fuel vent, fuel dip stick markings), - EWIS identification, - towing limit markings, - break-in markings, - inflate tyres with nitrogen, - RVSM and static markings.</td>
</tr>
</tbody>
</table>

**Reference documents:**
- CAR 21.175
- CAR 21.715
- CAR 21.801
- CAR 21.803
- CAR 21.804
- CAR 21.805
- CAR 21.807
- relevant CS for the aircraft type being inspected
- CAR M.501
### B.5  Operational requirements

**Requirements for the type of operation are complied with (e.g. equipment, documents, approvals).**

**Supporting information**

<table>
<thead>
<tr>
<th>Typical inspection items</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Check permits &amp; approvals required for type of operation.</td>
</tr>
<tr>
<td>2. Check for the presence and serviceability of equipment required by operational approvals.</td>
</tr>
<tr>
<td>3. Check safety equipment, check that emergency equipment is readily accessible.</td>
</tr>
</tbody>
</table>

**Reference documents:**

- CAR M.710(c)
- AMC M.904(a)(2) (f) & (k)

### B.6  Defect management

Defect management requires a system whereby information on faults, malfunctions, defects and other occurrences that cause or might cause adverse effects on the continuing airworthiness of the aircraft is captured. This system should be properly documented. It includes, amongst others, the MEL system, the CDL system and deferred defects management.

**Supporting information**

<table>
<thead>
<tr>
<th>Typical inspection items</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Check that the deferred defects have been identified, recorded, and rectified/deferred in accordance with approved procedures and within approved time limits.</td>
</tr>
<tr>
<td>2. Check that operations outside published approved data have only been performed under a Certificate of Fitness for Flight CAR Part V Chapter 2 Section 11.</td>
</tr>
<tr>
<td>Sample on:</td>
</tr>
<tr>
<td>a. TLB and hold item list,</td>
</tr>
<tr>
<td>b. maintenance task cards,</td>
</tr>
<tr>
<td>c. engine shop report,</td>
</tr>
<tr>
<td>d. (major) component shop report,</td>
</tr>
<tr>
<td>e. maintenance/repair/modification working party files after embodiment of modifications or repairs,</td>
</tr>
<tr>
<td>f. occurrence reporting data,</td>
</tr>
<tr>
<td>g. communications between the user of maintenance data and the maintenance data author in case of inaccurate, incomplete, ambiguous procedures and practices.</td>
</tr>
<tr>
<td>3. Check that the consequences of the deferral have been managed with Operation/Crew.</td>
</tr>
</tbody>
</table>
| Reference documents: | 4. Check that defects are being deferred in accordance with approved data (current revision of the MEL, CDL, aircraft maintenance programme).  
5. Compare physical location of parts/serial numbers with recorded locations to identify undocumented parts swaps for troubleshooting. |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C.1 Aircraft Maintenance Programme | - CAR M.301(2)  
- AMC M.301-2  
- CAR M.403  
- AMC M.710(a) 4  
- CAR 145.45  
- CAR 145.60  
- EASA AMC 20  
- GCAA CAAP 58 |
| Supporting information | Typical inspection items |
| The Aircraft Maintenance Programme (AMP) is intended to include scheduled maintenance tasks, the associated procedures and standard maintenance practises. It also includes the reliability programme, when required. Tasks included in the maintenance programme can originate from:  
- tasks for which compliance is mandatory: instructions specified in repetitive Airworthiness Directives (AD), or in the Airworthiness Limitations Section (ALS), which may include Certification Maintenance Requirements (CMRs). The ALS is included in the Instructions for Continuing Airworthiness (ICA) of a design approval holder;  
- tasks for which compliance is recommended: additional instructions specified in the Maintenance Review Board Report (MRBR), the Maintenance Planning Document (MPD), Service Bulletins (SB), or any other non-mandatory continuing airworthiness | Review of AMP contents:  
1. Check that the AMP properly reflects mandatory continuing airworthiness instructions (ALIs, CMRs (the latest source documents’ revision. Sample check that tasks are implemented within approved compliance times and that no tasks have been omitted.  
2. Check how recommended scheduled maintenance tasks (such as TBO intervals, recommended through Service Bulletins, Service Letters, etc..., the latest source documents’ revision) are considered when updating the AMP. If applicable, check embodiment policy as required by CAR M.301 point 7.  
3. Check that the AMP properly reflects the maintenance tasks specified in repetitive ADs.  
4. Check that the AMP properly reflects additional instructions for continuing airworthiness resulting from specific installed equipment or modifications embodied.  
5. Check that the AMP properly reflects additional instructions for continuing airworthiness resulting from repairs embodied.  
6. If applicable, check that the AMP properly reflects additional maintenance tasks required by specific |
information issued by the design approval holder;
- additional or alternative instructions proposed by the owner or the continuing airworthiness management organisation once approved in accordance with point M.302(d)(iii);
The AMP shall contain details, including frequency, of all maintenance to be carried out, including any specific tasks linked to the type and the specificity of operations.

7. Check for any additional scheduled maintenance measures required due to the use of the aircraft and the operational environment.
8. If applicable, check for proper identification of pilot-owner maintenance tasks and identification of the pilot-owner(s) or the alternative procedure described in AMC CAR M.803 point 3.
9. Check approval status of additional or alternative instructions CAR M.302(d)(iii)).
10. Check if a reliability programme is present and active when required.

Review of aircraft compliance with an AMP:
1. Check if the AMP used is valid for the aircraft, is approved and is amended correctly.
2. Check if tasks are performed within the value(s) quoted in AMP and the source documents
3. Sample check that no task has been omitted without justifications accepted by the GCAA (at the time of decision).
4. Check the reporting of performed scheduled maintenance into the records system.
5. Analyse the effectiveness of the AMP and reliability by reviewing the unscheduled tasks.

Reference documents:
- CAR M.302 and its AMC.
- CAR M.708(a)(1), (2),(4)

C.2 Component control

The component control should consider a twofold objective for components maintenance:
- maintenance for which compliance is mandatory.
- maintenance for which compliance is recommended.

Supporting information

<table>
<thead>
<tr>
<th>Typical inspection items</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Check that the mandatory maintenance tasks are identified as such and managed separately from recommendations.</td>
</tr>
<tr>
<td>2. Sample check installed components (PN and SN) against aircraft records:</td>
</tr>
<tr>
<td>a. Correct Part Number and Serial Number installed.</td>
</tr>
<tr>
<td>b. Correct authorised release document available.</td>
</tr>
<tr>
<td>3. Check the current status of time-controlled components, with due consideration to deferred items. They must identify:</td>
</tr>
<tr>
<td>a. The affected components (Part Number and Serial Number).</td>
</tr>
<tr>
<td>b. For components subject to a repetitive task: the</td>
</tr>
</tbody>
</table>
when, or before, their operating limitation is exceeded. The life limitation is controlled at the component level (in opposition to aircraft level). Components subject to a service life (‘time controlled components’) include the following:
- components for which removal and restoration are scheduled, regardless of their level of failure resistance.
- components for which failure resistance can reduce and drop below a defined level: Inspections are scheduled to detect potential failures. Reference is made to ‘On-condition’ components: They are subject to periodic maintenance dealing with a deterioration that is assumed to be predictable (the overall reliability invariably decreases with age): Failure is less likely to occur before restoration is necessary;

Notes:
1. Restoration tasks for hard time components are not the same as ‘On-condition’ tasks, since they do not monitor gradual deterioration, but are primarily done to ensure the item may continue to remain in service until the next planned restoration.
2. Components subject to ‘condition-monitoring’ are permitted to remain in service without preventive maintenance until functional failure occurs. Reference is made to ‘fly-to-failure’. Such components are subject to unscheduled tasks.

| when, or before, their operating limitation is exceeded. The life limitation is controlled at the component level (in opposition to aircraft level). Components subject to a service life (‘time controlled components’) include the following: | task description and reference, the applicable threshold/interval, the last accomplishment data (date, the component’s total accumulated life in Hours, Cycles, Landings, Calendar time, as necessary) and the next planned accomplishment data. |
| - components for which removal and restoration are scheduled, regardless of their level of failure resistance. Reference is made to hard time components: They are subject to periodic maintenance dealing with a deterioration that is assumed to be predictable (the overall reliability invariably decreases with age): Failure is less likely to occur before restoration is necessary; | c. For components subject to an unscheduled task: the task description and reference, the accomplishment data (date, the component’s total accumulated life in Hours, Cycles, Landings, Calendar time, as necessary). Pay attention to ETOPS and CDCCL components. |
| - components for which failure resistance can reduce and drop below a defined level: Inspections are scheduled to detect potential failures. Reference is made to ‘On-condition’ components: They are called such because components, which are inspected, are left in service (no further maintenance action taken) on the condition that they continue to meet specified performance standards. | 4. Check current status of life-limited components. This status can be requested upon each transfer throughout the operating life of the part: a. The life limitation, the component’s total accumulated life, and the life remaining before the component’s life limitation is reached (indicating Hours, Cycles, Landings, Calendar time, as necessary). |
| Notes: | b. If relevant for the determination of the remaining life, a full installation history indicating the number of hours, cycles or calendar time relevant to each installation on these different types of aircraft/engine. |
| 1. Restoration tasks for hard time components are not the same as ‘On-condition’ tasks, since they do not monitor gradual deterioration, but are primarily done to ensure the item may continue to remain in service until the next planned restoration. | 5. Check if the aircraft maintenance programme and reliability programme results impact the component control. |
| 2. Components subject to ‘condition-monitoring’ are permitted to remain in service without preventive maintenance until functional failure occurs. Reference is made to ‘fly-to-failure’. Such components are subject to unscheduled tasks. | 6. Check that life-limited and time controlled components are correctly marked during a physical survey. |

**Reference documents:**
- CAR 21.805
- CAR M.302
<table>
<thead>
<tr>
<th>Requirement</th>
<th>Typical inspection items</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAR M.305, CAR M.501, CAR M.503, CAR M.710</td>
<td></td>
</tr>
<tr>
<td>All repairs and unrepai red damage/degradations need to comply with the instructions of the appropriate maintenance manual (e.g. the SRM, the AMM, and/or the CMM). All repairs not defined in the appropriate maintenance manual need to be appropriately approved and recorded with the reference to the approval. This includes any damage or repairs to the aircraft/engine(s)/propeller(s), and their components.</td>
<td></td>
</tr>
</tbody>
</table>

**Supporting information**

The data substantiating repairs should include, but is not limited to, the damage assessment, the rationale for the classification of the repair, the evidence the repair has been designed in accordance with approved data, i.e. by reference to the appropriate manual, procedure or to a CAR 21 repair design approval, the drawings/material and accomplishment instructions, as well as the maintenance and operational instructions.

‘Repair status’ means a list of:
- the repairs embodied since the original delivery of (and still existent upon) the aircraft/engine/propeller/component; and
- the un-repaired damage/degradations.

It also includes, either directly or by reference to supporting documentation (i.e. repair files), the substantiating data supporting compliance with the applicable airworthiness requirements.

The repair status should identify the repair file reference, the repair classification, the repaired item (i.e. aircraft/engine/propeller/component, and a precise location if necessary), and the date and total life in FH/FC accumulated by the item at the time of repair or finding of the un-repaired damage/degradations. Cross-reference to the aircraft maintenance programme should also be included, as necessary.

Depending on the product State of Design, Bilateral Agreements and/or GCAA Decisions on acceptance of certification

1. Sample the repair status to confirm it appropriately traces repairs and un-repaired damage/deteriorations.
2. Sample repair files (at least one file for each type of repaired items) to check that repaired and un-repaired damage/deterioration have been assessed against the latest published approved repair data.
3. Check that repair instructions detailed in the repair file comply with published approved repair data.
4. Check that major repairs resulting in new or amended airworthiness limitations and associated mandatory instructions (including ageing aircraft programme) have been included in the aircraft maintenance programme.
5. Check that new or amended maintenance instructions resulting from repairs have been considered for inclusion in the aircraft maintenance programme.
6. Compare the repair status and the physical status of the repaired aircraft/engine(s)/propeller(s), and their repaired components (physical survey) in order to confirm the accuracy of the repair status. Sample embodied repairs to check their conformity against the repair files (physical survey).
findings exist and should be taken into account for the determination of acceptable data for repairs.

<table>
<thead>
<tr>
<th>Reference documents:</th>
</tr>
</thead>
<tbody>
<tr>
<td>- CAR 21.431</td>
</tr>
<tr>
<td>- CAR M.304</td>
</tr>
<tr>
<td>- AMC CAR M.304</td>
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<tr>
<td>- CAR M.305</td>
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<tr>
<td>- AMCs to CAR M.305</td>
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<tr>
<td>- CAR M.401</td>
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<tr>
<td>- AMCs to CAR M.401</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C.4 Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuing Airworthiness records are defined in CAR M.305 and CAR M.306, and related AMCs.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Supporting information</th>
<th>Typical inspection items</th>
</tr>
</thead>
</table>
| Retention/Transfer of the records is required so that the status of the aircraft and its components can be readily established at any time. Task accomplishment is scheduled (one time or periodically), or unscheduled (e.g. following an event). Aircraft continuing airworthiness records (refer to logbooks, technical logbooks, component log cards or task cards) shall provide the status with regard to:  
- scheduled tasks:  
  - one-time: life-limited parts status, modification status, repair status.  
  - repetitive: maintenance programme status.  
- unscheduled tasks. |
| 1. Check the aircraft continuing airworthiness record system: CAR M.305 and CAR M.306, as applicable, require that certain records are kept for defined periods. Pay attention to the continuity, integrity and traceability of records:  
  a. integrity: Check the data recorded is legible,  
  b. continuity: Check that records are available for the applicable retention period,  
  c. traceability: Check the link between operator/CAMO and maintenance documentation, traceability to approved data, traceability to appropriate release documents, etc.  
  2. If applicable, make sure that the tech log system is used correctly, including:  
  a. current aircraft release to service (including the maintenance statement) issued and  
  b. pre-flight inspections signed-off by authorised persons;  
  3. Check that any maintenance required following abnormal operation/event (such as overspeed, overweight operation, hard landing, excessive turbulence, and operation outside of Flight Manual limitations) has been performed, as applicable. |

<table>
<thead>
<tr>
<th>Reference documents:</th>
</tr>
</thead>
<tbody>
<tr>
<td>- CAR M.305</td>
</tr>
<tr>
<td>- CAR M.306</td>
</tr>
<tr>
<td>- CAR M.307</td>
</tr>
<tr>
<td>- CAR M.801</td>
</tr>
<tr>
<td>- AMC to CAR M.305</td>
</tr>
<tr>
<td>- AMC to CAR M.306</td>
</tr>
<tr>
<td>- AMC to CAR M.307</td>
</tr>
</tbody>
</table>
SECTION J - OPERATOR RAMP AUDIT PROGRAMME

The operator ramp audit programme will monitor the airworthiness status of the UAE fleet by surveying aircraft and operations at the point of departure. A programme will be developed each year taking into account the number and types of aircraft operated by each organisation, fleet development and past surveillance activities.

The ramp survey will focus on a number of key risk areas that can be surveyed in the time available during flight preparation without unnecessarily delaying the aircraft. Any findings identified will be notified in writing to the operator for rectification via Q Pulse. Findings may be raised against any GCAA civil aviation requirement or regulation if identified as a part of this audit programme.

Scope Of The Operator Ramp Audit Programme

1) The GCAA will undertake ramp surveys of aircraft on its register to verify that:
   (a) the condition of an aircraft as sampled is to a standard acceptable for the Certificate of Airworthiness/Airworthiness Review Certificate to remain in force,
   (b) required documents are on-board, including the technical log and minimum equipment list,
   (c) operational and emergency equipment fitted is correctly installed and serviceable or clearly identified as unserviceable,
   (d) the pre-flight check has been accomplished to the required standard,
   (e) the aircraft is up to date with regard to scheduled maintenance due and deferred defects remaining within the MEL time limits,
   (f) Pre-flight preparation procedures are being carried out in a consistent manner to achieve the required standards,
   (g) Control and co-ordination of ground handling activities including aircraft loading, refuelling and aircraft start/pushback procedures.
   (h) Use of the technical log system is being properly carried out, especially with regard to the reporting and control of defects, including defects noted in any cabin defects log

Depth of Ramp Survey Programme

1) The survey should be a broad observation of all of the pre-flight preparation activities; however some elements that have a direct effect on airworthiness will attract more focussed attention.

2) The record of a ramp survey should identify the activities examined, what was observed and details of where findings have been identified.

3) When performing a ramp survey, the inspector(s) should make all possible efforts to avoid an unreasonable delay of the aircraft inspected.
SECTION K - GUIDANCE ON DATING THE AIRWORTHINESS REVIEW CERTIFICATE

1) As defined in CAR M.901(a), the validity of an Airworthiness Review Certificate (ARC) is 12 months. For example, if an ARC is issued any time on 01 July 2012 it will expire at midnight on 30 June 2013.

2) In accordance with CAR M.710(d), accomplishment of the airworthiness review can be carried out up to 90 days prior to the date of expiry of the current ARC, “with any loss of continuity of the airworthiness review pattern”. This means that if the next airworthiness review is carried out no earlier than 02 April 2013 the expiry date of the new certificate will be 30 June 2014.

Note: This date cannot be extended by carrying out the review less than 90 days early.

3) If an operator elects to carry out airworthiness review more than 90 days early for planning purposes, e.g. for work load management, aircraft availability or utilisation, they may do so. However, in accordance with AMC CAR M.710(d) the aircraft would be considered to be outside of the controlled environment, and in these circumstances the operator will be required to make a recommendation to the GCAA for the issue of a Form 15a.

4) An ARC can be renewed once it has expired so long as the aircraft has remained under the control of the same continuing airworthiness management organisation. In these circumstances it can be dated for 12 months from the date of issue.

See figure 1 below for a graphical example of how to date an airworthiness review certificate.

Note: The dates are only provided are to illustrate the example, therefore it should be noted that each certificate will have a different set of dates to apply these rules too.
Figure 1 – Dating the Airworthiness Review Certificate

Year 1 – ARC Issue, Form 15a
Initial ARC issued 01 July 2012
Initial ARC expires 30 June 2013

Year 2 – ARC Renewal anticipated by 90 days or less Form 15a or Form 15b
ARC renewal due 01 July 2013
ARC can be anticipated by up to 90 days without affecting the 30 June 2014 expiry date.
90 days prior to 01 July 2013 is 02 April 2013 so this would be the earliest date the ARC could be carried out.

Year 2 – ARC Renewal, anticipated by more than 90 days, Form 15a
ARC renewal due 01 July 2013
ARC can be anticipated by > 90 days, ARC renewed 01 March 2013 which is 122 days early.
90 days from 01 March 2013 is 29 May 2013. The new expiry date would be 1 calendar year from this date.

Year 2 – ARC Renewal, ARC expired at time of renewal for any period therefore not continuous, Form 15a or 15b
ARC renewal due 01 July 2013
ARC not renewed at or before date of expiry due aircraft not in operation.
ARC process delayed; ARC renewed 01 August 2013.
Expiration date is 12 months from date of issue, ARC expiry date 31 July 2014.
<table>
<thead>
<tr>
<th>Part 1: General</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of organisation:</td>
</tr>
<tr>
<td>Approval reference:</td>
</tr>
<tr>
<td>AWF-ARC-014 dated:</td>
</tr>
<tr>
<td>Requested approval rating (if app.):</td>
</tr>
<tr>
<td>Other approvals held (if app.):</td>
</tr>
<tr>
<td>Address of facility(ies) audited:</td>
</tr>
<tr>
<td>Audit period: from to:</td>
</tr>
<tr>
<td>Date(s) of audit(s):</td>
</tr>
<tr>
<td>Audit reference(s):</td>
</tr>
<tr>
<td>Persons interviewed:</td>
</tr>
<tr>
<td>Inspector Name(s):</td>
</tr>
<tr>
<td>Signature(s):</td>
</tr>
<tr>
<td>Date of AWF-ARC-003 part 1 completion:</td>
</tr>
</tbody>
</table>

*delete as where applicable*
Part 2: CAR M Subpart G Compliance Audit Review

The five columns may be labeled and used as necessary to record the approval product line or facility, including subcontractor’s, reviewed. Against each column used of the following CAR M Subpart G sub-paragraphs please either tick (✓) the box if satisfied with compliance or cross (X) the box if not satisfied with compliance and specify the reference of the Part 4 finding next to the box. Enter N/A where an item is not applicable, or N/R when applicable but not reviewed.

<table>
<thead>
<tr>
<th>Audit Reference Number(s):</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>M.703</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Extent of approval</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M.704</td>
<td></td>
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Inspector Name(s): Signature(s):

Date of AWF-ARC-003 part 2 completion:
Part 3: Compliance with M.A. Subpart G continuing airworthiness management exposition (CAME)

Please either tick (✓) the box if satisfied with compliance; or cross (X) if not satisfied with compliance and specify the reference of the Part 4 finding; or enter N/A where an item is not applicable; or N/R when applicable but not reviewed.

<table>
<thead>
<tr>
<th>Part 0</th>
<th>Organisation</th>
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### Part 5: Appendices

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<th>Section</th>
<th>Description</th>
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<td>5.4</td>
<td>List of approved maintenance organisations contracted</td>
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<td>Copy of contracts for sub-contracted work as per Appendix 2 to CAR M.201(h)(h)1</td>
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<td>5.6</td>
<td>Copy of contracts with approved maintenance organisations</td>
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CAME Reference: 

Inspector Name(s): 

Signature(s): 

Date of AWF-ARC-003 part 3 completion:
Part 4: Findings regarding M.A. Subpart G compliance status

Each level 1 and 2 finding should be recorded whether it has been rectified or not and should be identified by a simple cross reference to the Part 2 requirement. All non-rectified findings should be copied in writing to the organisation for the necessary corrective action.

Audit Reference(s):

I have reviewed Q.Pulse records for this organisation and I can confirm that with regard to any audit findings, all findings are:
- closed,
- and/or are level 2 or 3 findings still within the agreed timescale for closure

Note: Not applicable for grant or change of an approval

I can confirm that there are no open Level 1 findings, or findings that are open beyond the agreed timescale for closure.

Inspector Name(s): Signature(s):

Date of AWF-ARC-003 part 4 completion:
**Part 5: CAR M Subpart G approval or continued approval or change recommendation**

Note: Recommendation actions cannot be combined. Please use separate forms for each action.

<table>
<thead>
<tr>
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<th>Airworthiness review authorised</th>
<th>Organisation(s) working under the quality system</th>
<th>A = Add</th>
<th>R = Remove</th>
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Or, it is recommended that the CAR M Subpart G scope of approval specified in AWF-ARC-014 referenced ......................................... be continued.*

Name of recommending GCAA Inspector:

Signature of recommending GCAA Inspector:

Date of AWF-ARC-003 part 5 completion:
**ATTACHMENT 2 – CAR M - Continuing Airworthiness Management Exposition Supplement**

<table>
<thead>
<tr>
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<tr>
<td><strong>Continuing Airworthiness Management Exposition Supplement</strong></td>
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**UAE GCAA – CAR M**

**Continuing Airworthiness Management Exposition Supplement**

**Name of Organisation**

**Address:**
(This should be the Organisation’s registered office and principle place of business)

**Telephone Number**
**Facsimile Number:**
**Email Address:**

GCAA CAR M Approval No:

EASA Part M CAME Reference No:

Supplement Reference No:

Revision No. Date:
INTRODUCTION

This supplement, in conjunction with the latest revision of the EASA approved CAME, defines the organisation and procedures upon which compliance with the Civil Aviation Regulation (CAR) of the United Arab Emirates is based and shall form the basis of acceptance by the UAE General Civil Aviation Authority (GCAA) to perform and control the continuous airworthiness management of UAE registered aircraft and recommend to the GCAA the Airworthiness Review Certificate (ARC) in accordance with CAR part V chapter 4 (CAR M).

Whenever there is an amendment to the EASA Part M, the Quality department shall send a copy of the revised and approved EASA CAME in the form of a CD to the UAE GCAA. The Same copy of the CD should contain the latest approved UAE GCAA CAME supplement.

The supplement shall be amended as necessary to remain in compliance with the requirements of the UAE GCAA Civil Aviation Regulations to qualify for GCAA CAR M approval. This supplement and any subsequent amendment shall be approved by the GCAA.

SUPPLEMENT REQUIREMENTS & COMPLIANCE REFERENCE MATRIX

The “Supplement Requirements & Compliance reference Matrix” provides reference on procedures documented in the Organisations approved EASA Part M CAME. It also outlines the additional requirements of UAE GCAA Civil Aviation Regulations (CARs).

Instructions on how to complete the Matrix

For each of the requirements listed on the matrix below, you are required to indicate, in the left-hand column, the procedure reference number where compliance with that particular requirement is demonstrated in your approved EASA Part M CAME. If there are differences or additional procedures required to comply with UAE GCAA CAR M regulations, with reference to the requirements listed in the matrix below, the additional procedure(s) is(are) required to be included in this supplement.

Where fields in the right hand column are greyed out the GCAA does necessarily expect specific procedures to be written however, if the CAMO writes specific CAR M procedures for any of these paragraphs then these should also be included in this column and the numbering adjusted as necessary.
## EASA PART M Compliance Ref.

<table>
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<td>UAE GCAA CAR M Ref</td>
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### PART 0 - General organisation

- Corporate commitment by the accountable manager.
  - 0.1
- General information.
- Management personnel.
  - 0.2
- Management organisation chart.
- Notification procedure to the GCAA regarding changes to the organisation’s activities / approval / location / personnel.
  - 0.3
- Exposition amendment procedures.

### PART 1 – Continuing Airworthiness Management Procedures

- Aircraft technical log utilization and MEL application (commercial air transport).
- Aircraft continuing airworthiness record system utilization (non commercial air transport).
- Aircraft maintenance programmes – development amendment and approval.
  - 1.1
- Time and continuing airworthiness records, responsibilities, retention, access.
- Accomplishment and control of airworthiness directives.
  - 1.2
- Analysis of the effectiveness of the maintenance programme(s).
- Non mandatory modification embodiment policy.
- Major modification standards.
  - 1.3
- Defect reports.
  - 1.4
- Engineering activity.
- Reliability programmes.
  - 1.5
- Pre-flight inspections.
- Aircraft weighing.
  - 1.6
- Check flight procedures.

### PART 2 - Quality system

- Continuing airworthiness quality policy, plan, audit and non-conformity control procedures.
- Monitoring of continuing airworthiness management activities.
  - 2.1
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<th>REQUIREMENT</th>
<th>UAE GCAA CAR-M Ref</th>
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**PART 3 Contracted Maintenance**

- Maintenance contractor selection procedure. 3.1
- Quality audit of aircraft. 3.2

**PART 4 Airworthiness review procedures**

- Airworthiness review staff.
- Review of aircraft records.
- Physical survey
- Additional procedures for recommendations to the GCAA for the import of aircraft.
- Recommendations to the GCAA for the issue of ARC. 4.1
- Issuance of ARC
- Airworthiness review records, responsibilities, retention and access. 4.2

**PART 5 – Appendices**

- Sample documents. 5.1
- List of airworthiness review staff. 5.2
- **List of sub-contractors as per AMC CAR M.201 (h) 1 and CAR M.711 (a) 3.** 5.3
- List of approved maintenance organisations contracted. 5.4
- Copy of contracts for sub-contracted task (appendix 2 to AMC CAR M.201 (h) 1). 5.5
- Copy of contracts with approved maintenance organisations. 5.6
PART 0 GENERAL ORGANISATION

0.1 Corporate commitment by the accountable manager

(The accountable manager's exposition statement should embrace the intent of the following paragraph and in fact this statement may be used without amendment. Any modification to the statement should not alter the intent.) This exposition defines the organisation and procedures upon which the CAR M. Subpart G approval of Joe Bloggs under CAR M is based.

These procedures are approved by the undersigned and must be complied with, as applicable; in order to ensure that all the continuing airworthiness activities including maintenance for aircraft managed by Joe Bloggs is carried out on time to an approved standard. It is accepted that these procedures do not override the necessity of complying with any new or amended regulation published by the GCAA from time to time where these new or amended regulations are in conflict with these procedures.

The GCAA will approve this organisation whilst the GCAA is satisfied that the procedures are being followed. It is understood that the GCAA reserves the right to suspend, vary or revoke the CAR M. Subpart G continuing airworthiness management approval of the organisation, as applicable, if the GCAA has evidence that the procedures are not followed and the standards not upheld. In the case of commercial air transport, suspension or revocation of the approval of the CAR M Subpart G continuing airworthiness management approval would invalidate the AOC.

0.2 Management personnel

a) Accountable manager

(This paragraph should address the duties and responsibilities of the accountable manager as far as CAR CAR M. subpart G is concerned and demonstrate that he has corporate authority for ensuring that all continuing airworthiness activities can be financed and carried out to the required standard.)
b) Nominated post holder for continuing airworthiness (for commercial air transport)

(This paragraph should):
- Emphasize that the nominated post holder for continuing airworthiness is responsible to ensure that all maintenance is carried out on time to an approved standard.
- Describe the extent of his authority as regards his CAR M responsibility for continuing airworthiness. (This paragraph is not necessary for organisations not holding an AOC)

c) Continuing airworthiness coordination

(This paragraph should list the job functions that constitute the "group of persons" as required by CAR M.706(c) in enough detail so as to show that all the continuing airworthiness responsibilities as described in CAR M are covered by the persons that constitute that group. In the case of small operators, where the "Nominated Post holder for continuing airworthiness constitutes himself the "group of persons", this paragraph may be merged with the previous one.)

d) Duties and responsibilities

(This paragraph should further develop the duties and responsibilities of:
- the personnel listed in paragraphs c): "Continuing airworthiness coordination ",
- the quality manager, as regards the quality monitoring of the maintenance system [which includes the approved maintenance organisation(s)].

0.3 Notification procedure to the GCAA regarding changes to the organisation’s activities / approval / location / personnel

(This paragraph should explain in which occasion the company should inform the GCAA prior to incorporating proposed changes; for instance: The accountable manager (or any delegated person such as the engineering director or the quality manager) will notify to the GCAA any change concerning:
(1) the company’s name and location(s)
(2) the group of person as specified in paragraph 0.2 a to c)
(3) operations, procedures and technical arrangements, as far as they may affect the approval.
Joe Bloggs will not incorporate such change until the change have been assessed and approved by the GCAA.)
PART 1 CONTINUING AIRWORTHINESS MANAGEMENT PROCEDURES

1.1 Aircraft maintenance programmes – development, amendment and approval

a) General
(This introductory paragraph should remind that the purpose of a maintenance programme is to provide maintenance planning instructions necessary for the safe operation of the aircraft.)

b) Content
(This paragraph should explain what is [are] the format[s] of the company’s aircraft maintenance programme[s]. Appendix I to AMC CAR M.302 (a) should be used as a guideline to develop this paragraph.)

c) Development
(1) Sources
(This paragraph should explain what are the sources [MRB, MPD, Maintenance Manual, etc..] used for the development of an aircraft maintenance programme.)
(2) Responsibilities
(This paragraph should explain who is responsible for the development of an aircraft maintenance programme)
(3) Manual amendments
(This paragraph should demonstrate that there is a system for ensuring the continuing validity of the aircraft maintenance programme. Particularly, it should show how any relevant information is used to update the aircraft maintenance programme. This should include, as applicable, MRB report revisions, consequences of modifications, manufacturers and GCAA recommendations, in service experience, and reliability reports.)
(4) Acceptance by the GCAA
(This paragraph should explain who is responsible for the submission of the maintenance programme to the GCAA and what the procedure to follow is. This should in particular address the issue of the GCAA approval for variation to maintenance periods. This may include, if agreed by the GCAA the possibility for the approved organisation to approve internally certain changes. The paragraph should then specify what types of changes are concerned and what the approval procedures are.)
1.2 Accomplishment and control of Airworthiness Directives

(This paragraph should demonstrate that there is a comprehensive system for the management of airworthiness directives. This paragraph may for instance include the following Sub-paragraphs:)

a) Airworthiness directive information
(This paragraph should explain what the AD information sources are and who receives them in the company. Where available, redundant sources [e.g. EASA+ GCAA + manufacturer or association] may be useful.)

b) Airworthiness directive decision
(This paragraph should explain how and by whom the AD information is analysed and what kind of information is provided to the contracted maintenance organisations in order to plan and to perform the airworthiness directive. This should as necessary include a specific procedure for emergency airworthiness directive management)

c) Airworthiness directive control
(This paragraph should specify how the organisation manages to ensure that all the applicable airworthiness directives are performed and that they are performed on time. This should include a close loop system that allows verifying that for each new or revised airworthiness directive and for each aircraft:
- the AD is not applicable or,
- if the AD is applicable:
  - the Airworthiness Directive is not yet performed but the time limit is not overdue,
  - the Airworthiness Directive is performed, and any repetitive inspection are identified and performed. This may be a continuous process or may be based on scheduled reviews.)

1.3 Major modification standards

(This paragraph should set out a procedure for the assessment of the approval status of any major modification before embodiment. This will include the assessment of the need of a GCAA or design organisation approval. It should also identify the type of approval required, and the procedure to follow to have a modification approved by the Authority of design.)
1.4 Defect reports

a) Analysis
(This paragraph should explain how the defect reports provided by the contracted maintenance organisations are processed by the continuing airworthiness management organisation. Analysis should be conducted in order to give elements to activities such as maintenance programme evolution and non-mandatory modification policy.)

b) Liaison with manufacturers and regulatory authorities
(Where a defect report shows that such defect is likely to occur to other aircraft, a liaison should be established with the manufacturer and the certification Authority, so that they may take all the necessary action. Refer to CAAP 22 (Reporting of Safety incident ROSI)

c) Deferred defect policy
(Defects such as cracks and structural defect are not addressed in the MEL and CDL. However, it may be necessary in certain cases to defer the rectification of a defect. This paragraph should establish the procedure to be followed in order to be sure that the deferment of any defect will not lead to any safety concern. This will include appropriate liaison with the manufacturer.)

1.5 Reliability programmes

(This paragraph should explain appropriately the management of a reliability programme. It should at least address the following:
- extent and scope of the operator’s reliability programmes,
- specific organisational structure, duties and responsibilities,
- establishment of reliability data,
- analysis of the reliability data,
- corrective action system (maintenance programme amendment),
- scheduled reviews (reliability meetings, the participation of the GCAA.)
(This paragraph may be, where necessary, subdivided as follows:) a) Airframe b) Propulsion c) Component

1.6 Aircraft weighing

(This paragraph should state in which occasion an aircraft has to be weighed [for instance after a major modification because of weight and balance operational requirements, etc.] who performs it, according to which procedure, who calculates the new weight and balance and how the result is processed into the organisation.)
PART 2 QUALITY SYSTEM

2.1 Monitoring Of Continuous Airworthiness Management Activities

(This paragraph should set out a procedure to periodically review the activities of the CAR M maintenance management personnel and how they fulfil their responsibilities to the GCAA, as defined in Part 0.)

2.2 Monitoring That All Maintenance Is Carried Out By An Appropriate Maintenance Organisation

(This paragraph should set out a procedure to periodically review that the GCAA maintenance approval[s] of the contracted maintenance organisations are relevant for the maintenance being performed on the operator’s fleet. This may include feedback information from any contracted organisation on any actual or contemplated amendment, in order to ensure that the maintenance system remains valid and to anticipate any necessary change in the maintenance agreements.

If necessary, the procedure may be subdivided as follows:

a) Aircraft maintenance
b) Engines
c) Components)
PART 3 CONTRACTED MAINTENANCE

3.1 Maintenance contractor selection procedure

(This paragraph should explain how a maintenance contractor is selected by the continuing airworthiness management organisation. Selection should not be limited to the verification that the contractor is appropriately approved for the type of aircraft, but also that the contractor has the industrial capacity to undertake the required maintenance. This selection procedure should preferably include a contract review process in order to insure that:
- the contract is comprehensive and that no gap or unclear area remains,
- everyone involved in the contract [both at the continuing airworthiness management organisation and at the maintenance contractor] agrees with the terms of the contract and fully understand his responsibility.
- that functional responsibilities of all parties are clearly identified.
- the contract is signed by the owner/lessee of the aircraft in the case of non-commercial air transport. In the case of non commercial air transport, this activity should be carried in agreement with the owner.)

3.2 Quality audit of aircraft

(This paragraph should set out the procedure when performing a quality audit of an aircraft. It should set out the differences between an airworthiness review and quality audit. This procedure may include:
- compliance with approved procedures;
- contracted maintenance is carried out in accordance with the contract;
- continued compliance with CAR M

PART 4 AIRWORTHINESS REVIEW PROCEDURES

4.1 Recommendations to the GCAA for the issue of airworthiness review certificates

(This paragraph should stipulate the communication procedures with the GCAA in case of a recommendation for the issuance of an airworthiness review certificate. In addition the content of the recommendation should be described.)

4.2 Airworthiness review records, responsibilities, retention and access

(This paragraph should describe how records are kept, the periods of record keeping, location where the records are being stored, access to the records and responsibilities.)
PART 5 APPENDICES

5.1 Sample documents

(A self explanatory paragraph)

5.2 List of Airworthiness Review Staff

(Please include a list of staff who will be making recommendations to the GCAA for renewal of the airworthiness review certificate)

5.3 List of sub-contractors as per CAR M.201 (h) 1 and CAR M.711 (a) 3.

(A self explanatory paragraph, in addition it should set out that the list should be periodically reviewed)

5.4 List of approved maintenance organisations contracted

(A self explanatory paragraph, in addition it should set out that the list should be periodically reviewed)

5.5 Copy of contracts for sub-contracted airworthiness tasks (appendix II to CAR M.201 (h) 1)

(A self explanatory paragraph)

5.6 Copy of contracts with approved maintenance organisations

(A self explanatory paragraph)