

DEPARTMENT OF CIVIL AVIATION
MALAYSIA
AIRWORTHINESS NOTICE

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Date: 1 July 1997

LICENSED AIRCRAFT MAINTENANCE ENGINEERS - CERTIFICATION RESPONSIBILITIES OF TYPE RATED ENGINEERS/COMPANY APPROVAL HOLDERS/AUTHORISATION HOLDERS IN RELATION TO MALAYSIAN CIVIL AVIATION REGULATIONS

1. General

1.1 The purpose of this Notice is to describe the certification responsibilities of Type Rated Licensed Aircraft Maintenance Engineers/Company Approval holders/DCA Authorisation holders in respect of the issue of Certificates of Maintenance Review and Certificates of Release to Service. Reference should be made to Airworthiness Notice No. 10 for details of Type Ratings; the contents of paragraph 3.2 of Airworthiness Notice No. 10 are particularly important.

Note 1: In the context of this Notice, reference to a Company Approval means an Approval issued by a DCA Approved Maintenance Organisation and an Authorisation means an authorisation issued by DCA to allow the holder to issue certifications within the limitations shown on the Company Approval document or DCA Certificate of Authorisation.

Note 2: Licensed Aircraft Maintenance Engineers mentioned in this notice includes Company Approval holders and Authorisation holders.

1.2 Certificates of Maintenance Review are issued to certify completion of the requirements of a maintenance schedule approved by the DCA. Reference should be made to Airworthiness Notice No. 12 for further details, including the prescribed form of the Certificate of Maintenance Review.

1.3 Certificates of Release to Service are issued in relation to overhaul, repair, replacement, modification, mandatory inspection and scheduled maintenance inspections. Reference should be made to Airworthiness Notice No. 12 for further details, including the prescribed form of the Certificate of Release to Service.

1.3.1 In connection with the issue of Certificates of Release to Service the following definitions apply:-

- (a) **Maintenance** means any one or combination of overhaul, repair, inspection, replacement, modification or defect rectification of an aircraft/aircraft component.
- (b) **Overhaul** means the restoration of an aircraft/aircraft component by inspection and replacement in conformity with an approved standard to extend the operational life.
- (c) **Repair** means the restoration of an aircraft/aircraft component to a serviceable condition in conformity with an approved standard.
- (d) **Inspection** means the examination of an aircraft/aircraft component to establish conformity with an approved specification.
- (e) **Replacement** is any work operation which involves the removal and replacement of the same part or the substitution of an approved part.
- (f) **Modification** means the alteration of an aircraft/aircraft component in conformity with an approved standard.

Note 1: Defect rectification normally consists of an element of inspection and troubleshooting followed by repair and replacement of the defective item.

Note 2: Inspection includes:

- (1) Mandatory inspection, an inspection classified as Mandatory by the DCA, where the inspection itself is the work (See Airworthiness Notice No. 4)
- (2) Scheduled Maintenance Inspection, an inspection or maintenance including tests required by the Approved Maintenance Schedule.

1.4 Although many terms in common usage describe the various aspects of aircraft engineering, the meanings assigned to such terms are not always the same. For the purpose of this Notice, in relation to airworthiness the terms are defined as follows:-

- (a) Condition - the physical state of an item.
- (b) Assembly - that items are fitted, assembled, attached, installed, connected,

secured or adjusted in the approved manner.

- (c) **Functioning** operation in the approved manner achieving such performance, range of movement and freedom of movement as may be specified.

The Licensed Aircraft Maintenance Engineer shall be responsible for the condition, assembly and functioning of the aircraft or its components for maintenance that has been certified under the privileges of a Type rated Licence or an authorisation.

- 1.5 The Licensed Aircraft Maintenance Engineer shall be responsible for ensuring that work is performed and recorded in a satisfactory manner taking into account the following:

- (a) Whenever work is carried out on an aircraft, it is the duty of all persons to whom this Notice applies to ensure that the work, for which they are responsible, progresses in a managed and controlled manner. Where they are supported by additional staff to carry out the work, consideration shall be given by them before starting the work to the manpower resource available and the abilities of the staff concerned. This is to ensure that the certifying Licensed Aircraft Maintenance Engineer determines and exercises an adequate degree of supervision over such staff.

Note : Within a DCA Approved Maintenance Organisation it is the responsibility of the Organisation to ensure the provision and management of the overall manpower resource.

- (b) In relation to work carried out on an aircraft, it is the duty of all persons to whom this Notice applies to ensure that an adequate record of the work carried out is maintained. This is particularly important where such work carries on beyond a working period or shift, or is handed over from one person to another. The work accomplished, particularly if only disassembly or disturbance of components or aircraft systems, should be recorded as the work progresses or prior to undertaking a disassociated task. In any event, records should be completed no later than the end of the work period or shift of the individual undertaking the work. Such records should include 'open' entries to reflect the remaining actions necessary to restore the aircraft to a serviceable condition prior to release. In the case of complex tasks which are undertaken frequently, consideration should be given to the use of pre-planned stage sheets to assist in the control, management and recording of these tasks. Where such sheets are used, care must be taken to ensure that they accurately reflect the current requirements and recommendations of the manufacturer and that all key stages, inspections, or replacements are recorded.

Note : Within a DCA Approved Maintenance Organisation it is the responsibility of the Organisation to control the preparation of such pre-planned worksheets and to put in place a managed document control system.

- (c) It is also the duty of all persons to whom this Notice applies to consider the effect such work may have, directly or indirectly, on items which are the responsibility of other such persons. In all cases where an overlap of responsibility between licence categories occurs, the person primarily responsible for the item must involve all other trade disciplines affected. Every person to whom this Notice applies must therefore be conversant with all other relevant paragraphs of this Notice. Certificates of Release to Service for each relevant trade category must be issued by all persons concerned, each assuming responsibility of and certifying those aspects of the work for which the licence/authorisation holder is entitled to assume responsibility.

- 1.6 A Certificate of Release to Service shall only be issued on completion of maintenance when the signatory is (signatories are) satisfied that the work has been properly carried out and accurately recorded, having due regard to the use of :

- (a) up-to-date instructions and approved airworthiness data (including manuals, drawings, specifications, DCA mandatory modifications/inspections and where applicable company procedures).
- (b) recommended tooling and test equipment which is currently calibrated where applicable.
- (c) a working environment appropriate to the work being carried out.

When issuing a Certificate of Release to Service for work performed by others, the certifying Licensed Aircraft Maintenance Engineer assumes responsibility. The Licensed Aircraft Maintenance Engineer must have inspected a sufficiently representative sample of the work and the associated documentation and be satisfied with the competence of the persons who have performed the work. For complex tasks this may require progressive inspections to be carried out as the work proceeds.

Note : Licensed engineers certifying under the privileges of their licence may not deviate from the manufacturer's maintenance instruction or approved airworthiness data, nor use alternative parts, components or assemblies unless such deviation is supported by the written agreement of the manufacturer, approved as a modification or agreed by

the DCA. The DCA should be consulted in cases of difficulty. Company Approval holders shall comply with all company procedures covering such issues.

- 1.7 (a) When the work involves the assembly or any disturbance of a vital point defined in BCAR Section A/B, Chapter A/B 5-3 or control system the duplicate inspection required must be completed and certified in accordance with BCAR Section A/B Chapter A/B 6-2 before the relevant Certificate of Release to Service is issued.
- (b) The holder of a Type Rated Licence in Category A and/or C may make certification on aircraft (or their engines, as appropriate) below 5700 kg MTWA for Duplicate Inspections of minor adjustments to control systems on other types within the Category in which the licence is type rated.

Note : A minor adjustment is considered to be a single point adjustment or reassembly of a control.

- 1.8 A Certificate of Release to Service shall only be issued for Non-Destructive Inspection by the holder of an Aircraft Maintenance Engineer's Licence in either Categories A, B, C or D which is appropriately Type Rated or by a person holding an aircraft type authorisation. This certification is restricted to certifying inspections carried out using a Field Kit for the Colour Contrast Dye Penetrant technique. Reference should be made to Airworthiness Notice No. 52 for Certification of other types of NDT.

- 1.9 To exercise certification privileges of a type rated licence or company approval, the holder of a type rated licence or company approval shall, during the 24 months preceding the date of the certification, has been engaged for periods totalling at least 6 months, on work affording experience comparable with that required for the grant of the Licence/Company Approval.

- 1.10 A Type Rated Licensed Engineer may issue the Certificates identified below in relation to aircraft for which the licence is Type Rated and in accordance with the privileges detailed in the remaining paragraphs to this Notice. An authorised engineer may only issue certificates as permitted within the limits of the authorisation.

- (a) Certificate of Release to Service for aircraft not required to be maintained under approved organisation (See Airworthiness Notice No. 68) - the holder of an appropriately Type Rated Licence may issue Certificates of Release to Service subject to compliance with the requirements of Airworthiness Notice No. 12.
- (b) Certificate of Maintenance Review - the holder of an appropriately Type Rated Licence in at least two Categories (other than Category 'X' Compasses) may issue a Certificate of Maintenance Review subject to compliance with the requirements of Airworthiness Notice No. 12 and the Maintenance Schedule Approval Document.
- (c) Certificates of Fitness for Flight - the holder of an appropriately Type Rated Licence may issue Certificates of Fitness for Flight subject to compliance with the requirements of MCAR.

Note : For aircraft listed in Paragraph 14 of Airworthiness Notice No. 10 certificates shall only be issued by appropriate Company approval holders.

- 1.11 Aircraft Maintenance Engineer Licences Without Type Rating and/or Type Rated Licences may be used for the grant of a company approval. In addition to the foregoing paragraphs, when working within a DCA Approved Maintenance Organisation, the licensed engineer should be aware that he/she is part of a comprehensive maintenance system. It is therefore important to realise that company procedures may further define, or require specific actions, as to how certain issues are to be dealt with and these procedures must be adhered to. It is also important to realise that when working within a DCA Approved Maintenance Organisation and certifying under the privileges of a company approval, the licensed engineer is not certifying under the privileges of the licence.

2. Aircraft Maintenance Engineers - Type Rated in Category 'A' - Aeroplanes

Note : This paragraph must be read in conjunction with paragraph 1 of this Notice and particular attention paid to sub-paragraphs 1.4, 1.5, 1.6 and 1.7 which are concerned with areas of responsibility.

- 2.1 The holder of a Category 'A' licence may issue Certificates of Release to Service in respect of maintenance in relation to aircraft (but not including engines) for which the licence is Type Rated.
- 2.2 In connection with the certification of maintenance the holder of a Type Rated Licence in Category 'A' is responsible for all parts of the aeroplane subject to the limitations detailed in sub-paragraphs 2.3 and 2.4 below (excluding those parts which are the responsibility of the holder of a Type Rated Licence in Category 'C').

- 2.3 The holder of a Type Rated Licence in Category 'A' may issue Certificates of Release to Service relating to maintenance (excluding overhaul) of parts of the aeroplane for which the holder is responsible, providing that the work has not involved any of the following :
- (a) Bolted joints requiring special techniques.
 - (b) Complete riveted joints in primary structures.
 - (c) Complete glued joints in primary structures.
 - (d) Bonded assemblies in primary structures.
 - (e) Composite material primary structures.
 - (f) Welded and brazed joints.
 - (g) Cotton, linen, polyester and glass fibre fabric covering of a complete fuselage or aerofoil.
 - (h) The disturbing of individual parts of units which are supplied as bench tested units, except for the replacement or adjustment of items normally replaceable or adjustable in service.

- 2.4 In connection with the maintenance of instrument, electrical, automatic pilot and radio systems installed in aeroplanes (excluding overhaul) of such systems as are associated with the engine(s) and auxiliary power unit(s) entitled to issue Certificates of Release to Service for aircraft for which he holds a Type Rating, subject to the limitations detailed in sub-paragraphs 2.4.1, 2.4.2, 2.4.3, 2.4.4 and 2.4.5.

Note : Where no limitations are shown, Certificates of Release to Service may be issued for repair, replacement, modification, mandatory inspection or scheduled maintenance inspection. In respect of the certification of scheduled maintenance inspections, reference should also be made to the Maintenance Schedule Approval Document which may require certification specifically by an engineer licensed in the appropriate 'X' or 'R' Category. However, in the absence of such a requirement, the holder of a Type Rated Licence in Category 'A' - Aeroplanes assumes the responsibility for establishing compliance with the maintenance schedule requirements on the systems before issuing the Certificate of Release to Service.

- 2.4.1 In respect of instrument systems in the aeroplane (excluding instrument systems associated with the engine(s) and auxiliary power unit(s)):
- (a) If the aeroplane has an instrument system specified in sub-paragraph 8.1 of Airworthiness Notice No. 10, Certificates of Release to Service may be issued.
 - (b) If the aeroplane has an instrument system specified in sub-paragraphs 8.2 to 8.4 inclusive of Airworthiness Notice No. 10, Certificates of Release to Service may be issued relating to replacements only, provided that functioning checks to prove serviceability do not require the use of test apparatus.
 - (c) If the aeroplane is specified in paragraph 10 of Airworthiness Notice No. 10, Certificates of Release to Service may not be issued.
- 2.4.2 In respect of electrical systems in the aeroplane (excluding electrical systems associated with the engine(s) and auxiliary power unit(s)):
- (a) If the aeroplane has an electrical system specified in sub-paragraph 9.1 of Airworthiness Notice No. 10, Certificates of Release to Service may be issued.
 - (b) If the aeroplane has an electrical system specified in sub-paragraphs 9.2 to 9.4 inclusive of Airworthiness Notice No. 10, Certificates of Release to Service may be issued relating to replacements only, provided that functioning checks to prove serviceability do not require the use of test apparatus.
 - (c) If the aeroplane is specified in paragraph 10 of Airworthiness Notice No. 10, Certificates of Release to Service may not be issued.
- 2.4.3 In respect of automatic pilot systems in the aeroplane:
- (a) If the aeroplane has an automatic pilot system specified in sub-paragraph 13.1 of Airworthiness Notice No. 10 installed, Certificates of Release to Service may be issued.
 - (b) If the aeroplane has an automatic pilot system specified in sub-paragraphs 13.2 of Airworthiness Notice No. 10 installed, Certificates of Release to Service may be issued relating to replacements only, provided that functioning checks to prove serviceability do not require the use of test apparatus.

(c) If the aeroplane has an automatic pilot system as specified in sub-paragraph 13.3 or the aeroplane is specified in paragraph 10 of Airworthiness Notice No. 10, Certificates of Release to Service may not be issued.

2.4.4 Certificates of Release to Service may not be issued in respect of radio systems, except that if the aeroplane has a MTWA not exceeding 2730 kg, certificates may be issued in respect of the replacement of VHF communication equipment only.

2.4.5 Certificates of Release to Service may not be issued in respect of compass compensation and adjustment unless the licence is endorsed to that effect.

3. Aircraft Maintenance Engineers - Type Rated in Category 'B' - Aircraft including Rotorcraft

No further Type Rated Licences will be issued in Category 'B'. Existing holders of Type Rated Licences in Category 'B' will be allowed to exercise the associated certification privileges until further notice, but applications for extensions within the category will not be accepted.

4. Aircraft Maintenance Engineers - Type Rated in Category 'C' - Engines

Note : This paragraph must be read in conjunction with paragraph 1 of this Notice and particular attention paid to sub-paragraphs 1.4, 1.5, 1.6 and 1.7 which are concerned with areas of responsibility.

4.1 The holder of a Category 'C' licence may issue Certificates of Release to Service in respect of maintenance in relation to engines and auxiliary power units for which the licence is Type Rated.

4.2 In connection with the certification of maintenance (excluding overhaul) the holder of a Type Rated Licence in Category 'C' is responsible for all parts of the engine(s), the engine installation(s), auxiliary power unit(s), other propulsive device(s) and all associated systems and devices which are concerned with their operation, subject to the limitations detailed in sub-paragraphs 4.3, 4.4, 4.5 (excluding those parts which are the responsibility of the holder of a Type Rated Licence in Category 'D').

4.3 The holder of a Type Rated Licence in Category 'C' may issue Certificates of Release to Service relating to maintenance (excluding overhaul) of components or parts for which the holder is responsible, providing that the work has not involved:

- (a) Dismantling of a piston engine other than to obtain access to the piston/cylinder assemblies.
- (b) Dismantling of main casings or main rotating assemblies of a turbine engine, except as detailed in sub-paragraph 4.4.
- (c) The removal or dismantling of reduction gears.
- (d) Propeller balancing, except those propellers which require check balancing in accordance with the aircraft maintenance manual, and providing suitable training on the balancing equipment and procedures has been received.
- (e) Welded or brazed joints.
- (f) The disturbing of individual parts of units which are supplied as bench tested units, except for the replacement or adjustment of items normally replaceable or adjustable in service.

4.4 Where the maintenance manual for the particular engine provides instruction for the task, replacement of main casings and/or rotating assemblies comprising the whole or part of a particular rotating system will be permitted provided that removal from the engine is achieved solely by disconnecting the flanges of main casings. In accordance with the above principles, some engines have been assigned the following symbols, @ or # in Airworthiness Notice No. 10. Dismantling of these engines is permissible, but is limited to :

- (a) @ - Removal/replacement of main casings, **excluding** those whose removal results in concurrent removal of a rotating assembly from the engine. No dismantling of main rotating assemblies is permitted.
- (b) # - Removal/replacement of main casings **including** those whose removal results in concurrent removal of a rotating assembly from the engine, **provided this is accomplished solely by disconnecting at the casing flanges**. No dismantling of main rotating assemblies is permitted.

- 4.5 In connection with the maintenance of instrument, electrical and automatic pilot systems installed in aeroplanes, the holder of a Type Rated Licence in Category 'C' is entitled to issue Certificate of Release to Service in respect of such systems associated with engine and auxiliary power unit installations for which the holder has a Type Rating, subject to the limitations detailed in sub-paragraphs 4.5.1, 4.5.2 and 4.5.3.

Note : Where no limitations are shown, Certificates of Release to Service may be issued for replacement, modification, repair, mandatory inspection or scheduled maintenance inspection. In respect of the certification of scheduled maintenance inspections reference should also be made to the Maintenance Schedule Approval Document which may require certification specifically by an engineer licensed in the appropriate 'X' Category. However, in the absence of such a requirement, the holder of a Type Rated Licence in Category 'C' - Engines assumes the responsibility for establishing compliance with the maintenance schedule requirements on the systems before issuing the Certificate of Release to Service.

- 4.5.1 In respect of instrument systems associated with the engine(s) and auxiliary power unit(s) :

- (a) If engine is installed in an aeroplane which has an instrument system specified in sub-paragraph 8.1 of Airworthiness Notice No. 10, Certificates of Release to Service may be issued.
- (b) If the engine is installed in an aeroplane which has an instrument system specified in sub-paragraphs 8.2 to 8.4 inclusive of Airworthiness Notice No. 10, Certificates of Release to Service may be issued relating to replacements only, provided that functioning checks to prove serviceability do not require the use of test apparatus.
- (c) If the engine is installed in an aeroplane specified in paragraph 10 of Airworthiness Notice No. 10, Certificates of Release to Service may not be issued.

- 4.5.2 In respect of electrical systems associated with the engine(s) and auxiliary power unit(s) :

- (a) If the engine is installed in an aeroplane which has an electrical system specified in sub-paragraph 9.1 of Airworthiness Notice No. 10, Certificates of Release to Service may be issued.
- (b) If the engine is installed in an aeroplane which has an electrical system specified in sub-paragraphs 9.2 to 9.4 inclusive of Airworthiness Notice No. 10, Certificates of Release to Service may be issued relating to replacements only, provided that functioning checks to prove serviceability do not require the use of test apparatus.
- (c) If the engine is installed in an aeroplane specified in paragraph 10 of Airworthiness Notice No. 10, Certificates of Release to Service may not be issued.

- 4.5.3 In respect of automatic pilot systems associated with the engine(s) :

- (a) If the aeroplane has an automatic pilot system specified in sub-paragraph 13.1 of Airworthiness Notice No. 10 installed, Certificates of Release to Service may be issued.
- (b) If the aeroplane has an automatic pilot system specified in sub-paragraphs 13.2 of Airworthiness Notice No. 10 installed, Certificates of Release to Service may be issued relating to replacements only, provided that functioning checks to prove serviceability do not require the use of test apparatus.
- (c) If the aeroplane has an automatic pilot system as specified in sub-paragraph 13.3 or is specified in paragraph 10 of Airworthiness Notice No. 10, Certificates of Release to Service may not be issued.

5. Aircraft Maintenance Engineers - Type Rated in Category 'D' - Engines

No further Type Rated Licences will be issued in Category 'D'. Existing holders of Type Rated Licences in Category 'B' will be allowed to exercise the associated certification privileges until further notice, but applications for extensions within the category will not be accepted

6. Aircraft Maintenance Engineers - Type Rated in Categories 'A' & 'C' - Rotorcraft.

Note 1: This paragraph must be read in conjunction with paragraph 1 of this Notice and particular attention paid to sub-paragraphs 1.4, 1.5, 1.6 and 1.7 which are concerned with areas of responsibility.

Note 2: A Category A and C Rotorcraft Licence may not be used to certify for piston or jet turbine engines installed in aeroplanes.

- 6.1 The holder of a Categories 'A' and 'C' Rotorcraft Licence may issue Certificates of Release to Service in respect of maintenance in relation to rotorcraft and its engines for which the licence is Type Rated.
- 6.2 In connection with the certification of maintenance the holder of a Type Rated Licence in Categories 'A' and 'C' - Rotorcraft is responsible for all parts of the rotorcraft subject to the limitations detailed in sub-paragraphs 6.3, 6.4 and 6.5.
- 6.3 The holder of a Type Rated Licence in Category 'A' and 'C' - Rotorcraft may issue Certificates of Release to Service relating to maintenance (excluding overhaul) of parts of the rotorcraft for which the holder is responsible, providing that the work has not involved any of the following :
- (a) Bolted joints requiring special techniques.
 - (b) Complete riveted joints in primary structures.
 - (c) Complete glued joints in primary structures.
 - (d) Bonded assemblies in primary structures.
 - (e) Composite material primary structures.
 - (f) Welded and brazed joints.
 - (g) Dismantling of a piston engine other than to obtain access to the piston/cylinder assemblies.
 - (h) Dismantling of main casings or main rotating assemblies of a turbine engine, except as detailed in sub-paragraph 6.4.
 - (i) Dismantling of gearbox casings, except that separation of casings to obtain access for the purpose of internal inspections in accordance with the manufacturer's instruction is permitted.
 - (j) The disturbing of individual parts of units which are supplied as bench tested units, except for the replacement or adjustment of items normally replaceable or adjustable in service.
- 6.4 Where the maintenance manual for the particular engine provides instruction for the task, replacement of main casings and/or rotating assemblies comprising the whole or part of a particular rotating system will be permitted provided that removal from the engine is achieved solely by disconnecting the flanges of main casings. In accordance with the above principles, some engines have been assigned the following symbols, @ or # in Airworthiness Notice No. 10. Dismantling of these engines is permissible, but is limited to :
- (a) @ - Removal/replacement of main casings, **excluding** those whose removal results in concurrent removal of a rotating assembly from the engine. No dismantling of main rotating assemblies is permitted.
 - (b) # - Removal/replacement of main casings **including** those whose removal results in concurrent removal of a rotating assembly from the engine, **provided this is accomplished solely by disconnecting at the casing flanges**. No dismantling of main rotating assemblies is permitted.
- 6.5 In connection with the maintenance of instrument, electrical, automatic pilot and radio systems installed in rotorcraft (excluding overhaul) the holder of a Type Rated Licence in Categories 'A' and 'C' - Rotorcraft is entitled to issue Certificates of Release to Service for rotorcraft for which he holds a Type Rating, subject to the limitations detailed in sub-paragraphs 6.5.1, 6.5.2, 6.5.3 and 6.5.4.
- Note :** Where no limitations are shown, Certificates of Release to Service may be issued for replacement, modification, repair, mandatory inspection or scheduled maintenance inspection. In respect of the certification of scheduled maintenance inspections, reference should also be made to the Maintenance Schedule Approval Document which may require certification specifically by an engineer licensed in the appropriate 'X' or 'R' Category. However, in the absence of such a requirement, the holder of a Type Rated Licence in Categories 'A' and 'C' - Rotorcraft assumes the responsibility for establishing compliance with the maintenance schedule requirements on the systems before issuing the Certificate of Release to Service.
- 6.5.1 In respect of instrument systems in the rotorcraft if the rotorcraft is specified in sub-paragraph 7.4 of Airworthiness Notice No. 10, Certificates of Release to Service may be issued relating to replacements only, provided that functioning checks to prove serviceability do not require the use of test apparatus.
- 6.5.2 In respect of electrical systems in the rotorcraft, if the rotorcraft is specified in sub-paragraph 7.4 of Airworthiness Notice No. 10, Certificates of Release to Service may be issued relating to replacements only, provided that functioning checks to prove serviceability do not require the use of test apparatus.

6.5.3 In respect of automatic pilot/automatic stabiliser systems in rotorcraft, if the rotorcraft has an automatic pilot/automatic stabiliser system specified in sub-paragraph 13.4 or 13.5 of Airworthiness Notice No. 10 installed, Certificates of Release to Service may be issued relating to replacements only, provided that functioning checks to prove serviceability do not require the use of test apparatus.

6.5.4 Certificates of Release to Service may not be issued in respect of radio systems except that if the rotorcraft has a MTWA not exceeding 2730 kg, certificates may be issued in respect of the replacement of VHF communication equipment only.

7. Aircraft Maintenance Engineers - Type Rated in Category 'X' - Instruments.

Note : This paragraph must be read in conjunction with paragraph 1 of this Notice and particular attention paid to sub-paragraphs 1.4, 1.5, 1.6 and 1.7 which are concerned with areas of responsibility.

7.1 The holder of a Category 'X' - Instruments Licence may issue Certificates of Release to Service in respect of maintenance in relation to aircraft instrument systems for which the licence is Type Rated, subject to the limitations detailed in sub-paragraphs 7.3.

7.2 In connection with the certification of maintenance, excluding overhaul, the holder of a Type Rated Licence in Category 'X' - Instruments is responsible for all parts of instrument systems included in the Type Rating.

7.3 The holder of a Type Rated Licence in Category 'X' - Instruments may issue Certificates of Release to Service in respect of maintenance, excluding overhaul, of components and parts for which the holder is responsible provided that units which are supplied as bench tested units may not have their individual parts disturbed, except for the replacement or adjustment of items normally replaceable or adjustable in service.

7.4 Certificate of Release to Service in respect of compass compensation and adjustment may not be issued unless the licence is endorsed to the effect.

(Also see Para 8.8 of Airworthiness Notice No. 10)

8. Aircraft Maintenance Engineers - Type Rated in Category 'X' - Electrical.

Note : This paragraph must be read in conjunction with paragraph 1 of this Notice and particular attention paid to sub-paragraphs 1.4, 1.5, 1.6 and 1.7 which are concerned with areas of responsibility.

8.1 The holder of a Category 'X' - Electrical Licence may issue Certificates of Release to Service in respect of maintenance in relation to aircraft electrical systems for which the licence is Type Rated, subject to the limitations detailed in sub-paragraphs 8.3.

8.2 In connection with the certification of maintenance, excluding overhaul, the holder of a Type Rated Licence in Category 'X' - Electrical is responsible for all parts of electrical systems included in the Type Rating.

8.3 The holder of a Type Rated Licence in Category 'X' - Electrical may issue Certificates of Release to Service in respect of maintenance, excluding overhaul, of components and parts for which the holder is responsible provided that units which are supplied as bench tested units may not have their individual parts disturbed, except for the replacement or adjustment of items normally replaceable or adjustable in service.

9. Aircraft Maintenance Engineers - Type Rated in Category 'X' - Automatic Pilots.

Notes : This paragraph must be read in conjunction with paragraph 1 of this Notice and particular attention paid to sub-paragraphs 1.4, 1.5, 1.6 and 1.7 which are concerned with areas of responsibility.

9.1 The holder of a Category 'X' - Automatic Pilots Licence may issue Certificates of Release to Service in respect of maintenance in relation to aircraft automatic pilot systems for which the licence is Type Rated, subject to the limitations detailed in sub-paragraphs 9.3.

9.2 In connection with the certification of maintenance, excluding overhaul, the holder of a Type Rated Licence in Category 'X' - Automatic Pilots is responsible for all parts of the automatic pilot systems included in the Type Rating.

9.3 The holder of a Type Rated Licence in Category 'X' - Automatic Pilots may issue Certificates of Release to Service in respect of maintenance, excluding overhaul, of components and parts for which the holder is responsible provided that units which are supplied as bench tested units may not have their individual

parts disturbed, except for the replacement or adjustment of items normally replaceable or adjustable in service.

10. Aircraft Maintenance Engineers - Type Rated in Combined Categories 'X' - Instruments/Automatic Pilots

The Type Rated Licence in Combined Categories 'X' - Instrument/Automatic pilots is comprised of two 'X' Category ratings and the provisions and limitations contained in both paragraph 7 and 9 of this Notice apply in relation to the Instrument and Automatic Pilot systems installed in any aircraft for which the Combined Categories 'X' Licence is type rated.

11. Aircraft Maintenance Engineers - Type Rated in Category 'R' - Radio.

Note : This paragraph must be read in conjunction with paragraph 1 of this Notice and particular attention paid to sub-paragraphs 1.4, 1.5, 1.6 and 1.7 which are concerned with areas of responsibility.

11.1 The holder of a Category 'R' - Radio Licence may issue Certificates of Release to Service in respect of maintenance in relation to aircraft radio systems for which the licence is Type Rated, subject to the limitations detailed in sub-paragraphs 11.3.

11.2 In connection with the certification of maintenance, excluding overhaul, the holder of a Type Rated Licence in Category 'R' - Radio is responsible for all parts of the radio systems included in the Type Rating.

11.3 The holder of a Type Rated Licence in Category 'R' - Radio may issue Certificates of Release to Service in respect of maintenance, excluding overhaul, of components and parts for which the holder is responsible provided that units which are supplied as bench tested units may not have their individual parts disturbed, except for the replacement or adjustment of items normally replaceable or adjustable in service.

11.4 The holder of a Type Rated Licence in Category 'R' - Radio, endorsed to include the overhaul of radio apparatus, is responsible for and may issue Certificates of Release to Service in respect of the maintenance of components and parts of all radio apparatus undergoing periodic check, repair or overhaul in workshop for which the Licence is Type Rated, provided that the work done does not involve the making of radio components or parts.

11.5 The holder of a Type Rated Licence in Category 'R' - Radio endorsed 'including GPWS' may issue Certificates of Release to Service in respect of maintenance, excluding overhaul or scheduled maintenance inspection, of Ground Proximity Warning Systems for aircraft which the licence is Type Rated in respect to its radio systems, subject to the limitations of sub-paragraph 11.3.

12. Compass Compensation and Adjustment.

The Paragraph 15 type rating of Airworthiness Notice No. 10 permits the issue of Certificates of Release to Service by the holder in respect of the compensation and adjustment of direct and remote reading compasses on any aircraft except those required to be maintained only by approved organisations (refer Airworthiness Notice No. 10 paragraph 14)

13. Cancellation

This Notice cancel Airworthiness Notice No. 3 Issue 3 dated 1 September 1994 which should be destroyed.

DIRECTOR GENERAL
DEPARTMENT OF CIVIL AVIATION
MALAYSIA

